Missouri Botanical Garden

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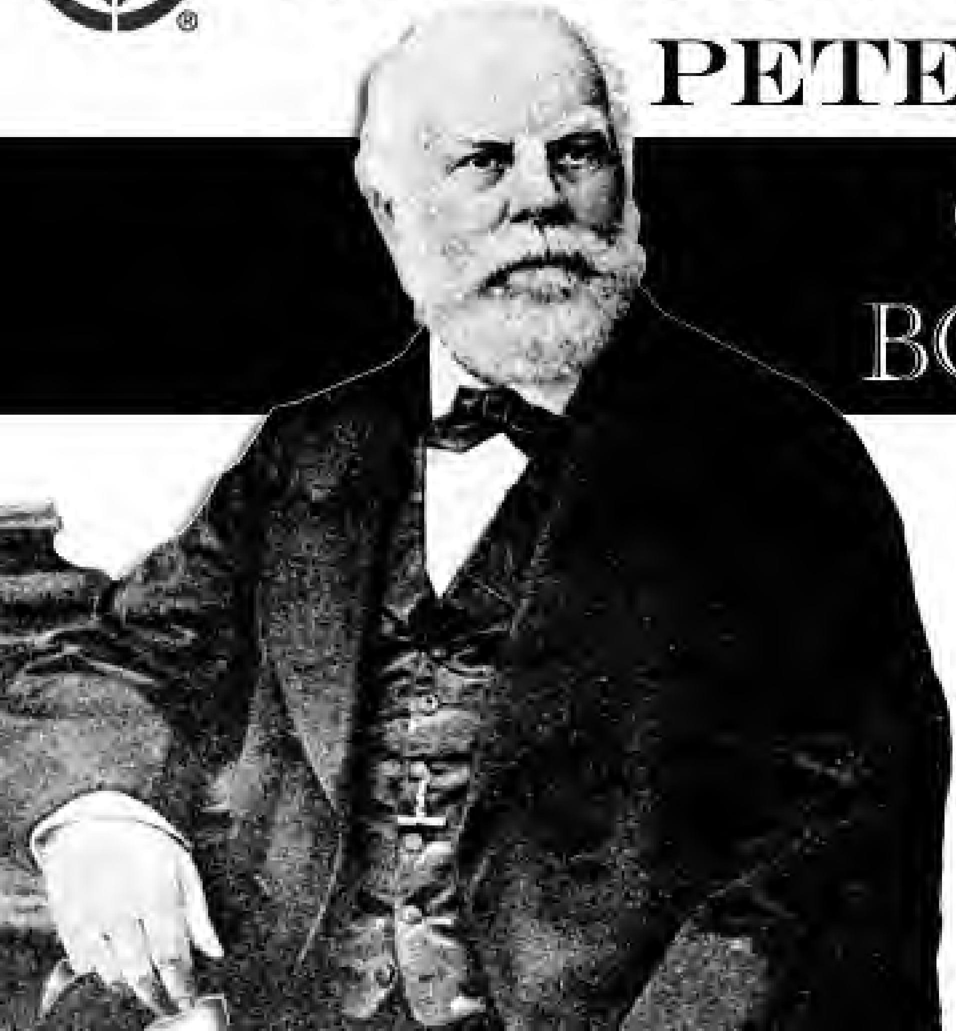

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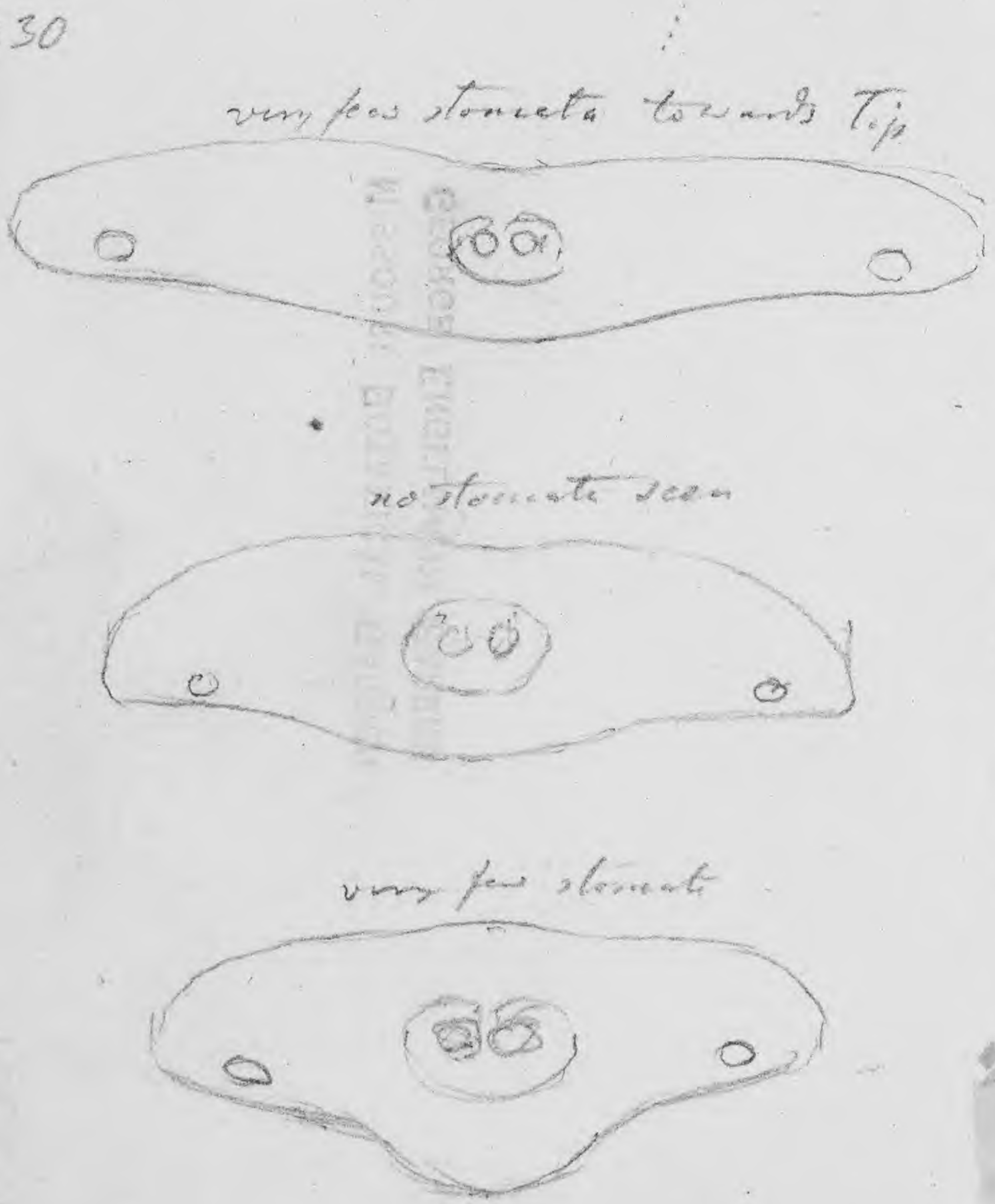
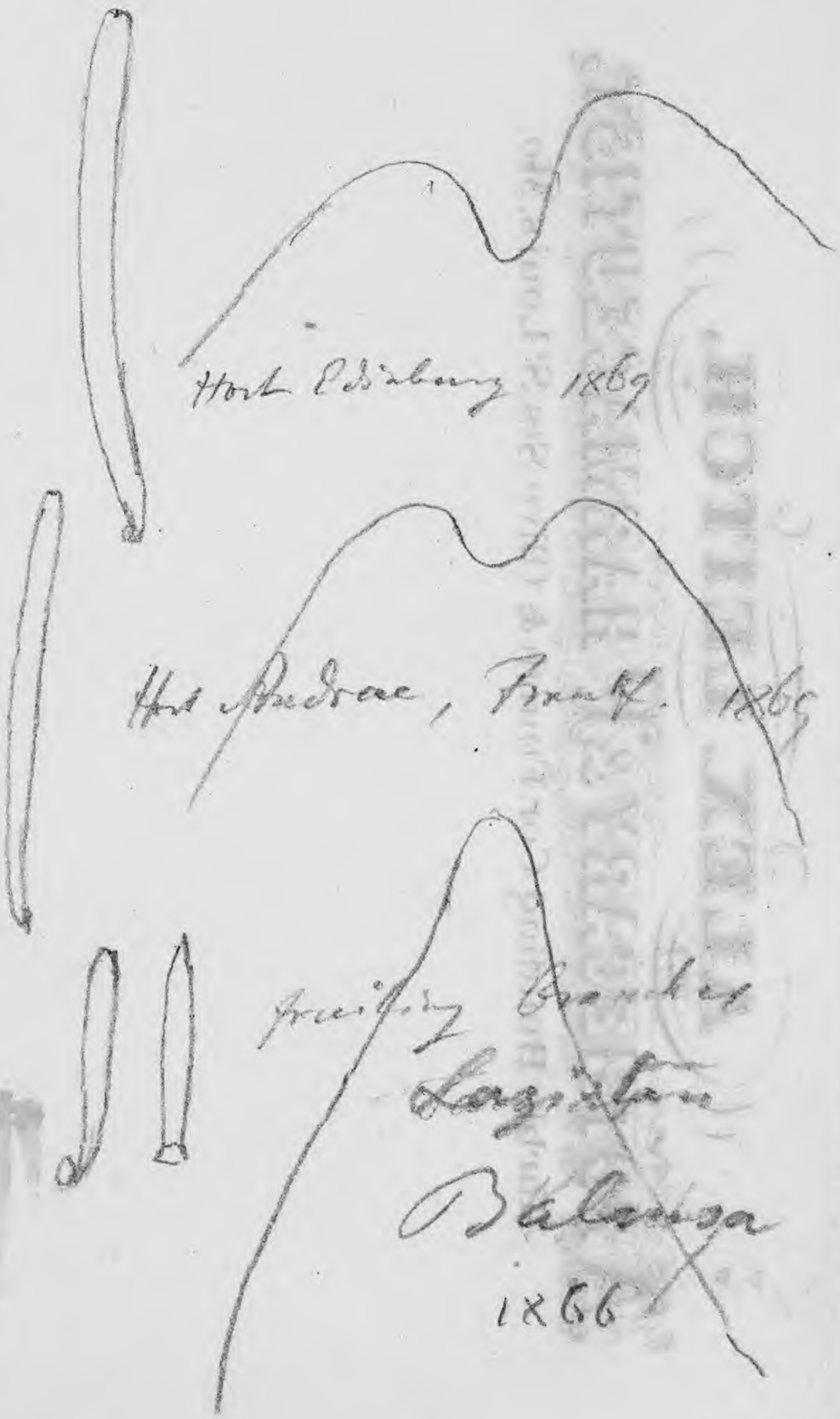
Abies Nordmanniana Oct 6 1875

×30





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MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

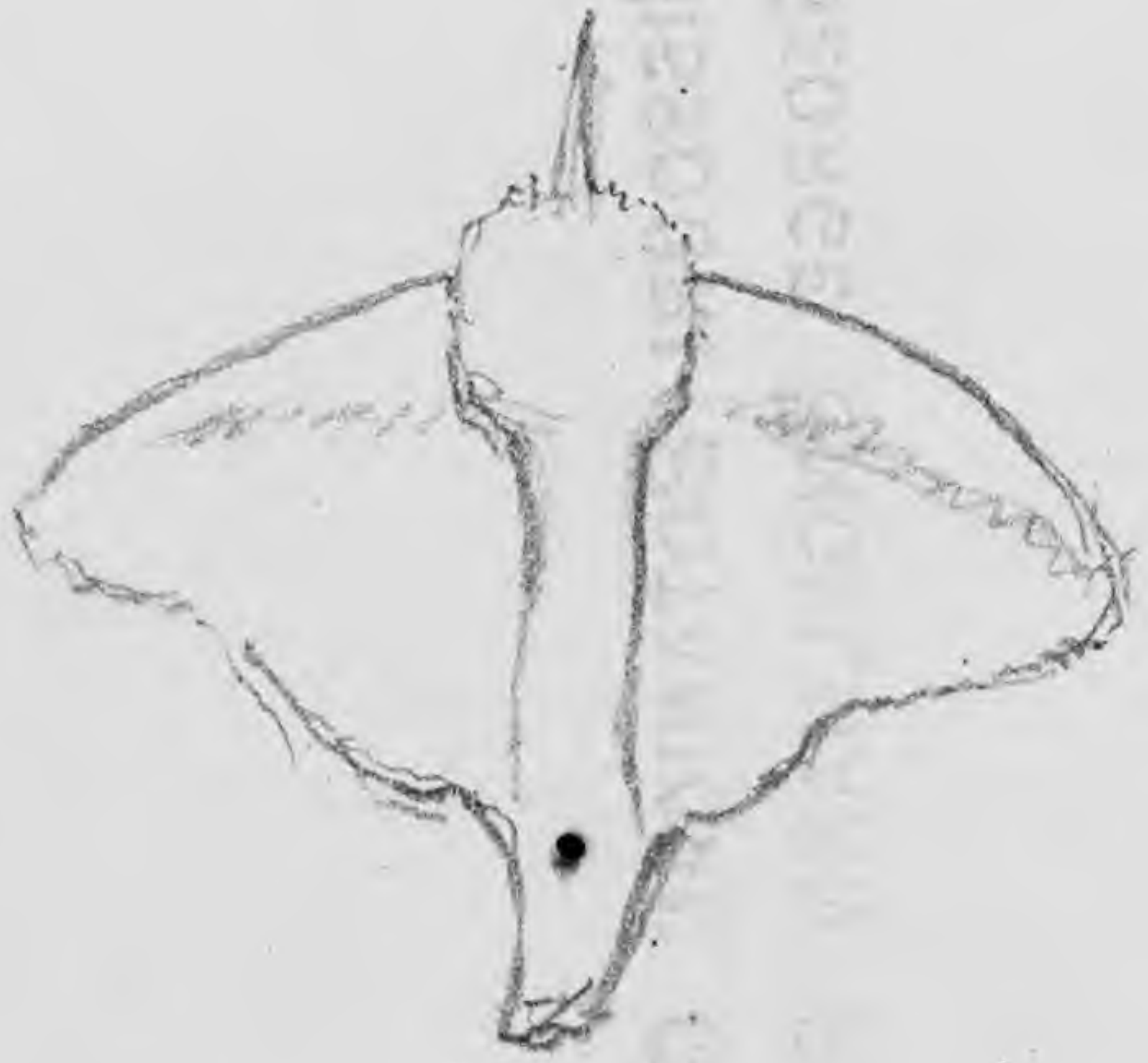
13034

Bractea exserta

Abies Nordmanniana Stev. Octob 5th 1870

Lazistan, Balansa,

ex Hb Cosson



Squa 30-33 : 16-17 mm

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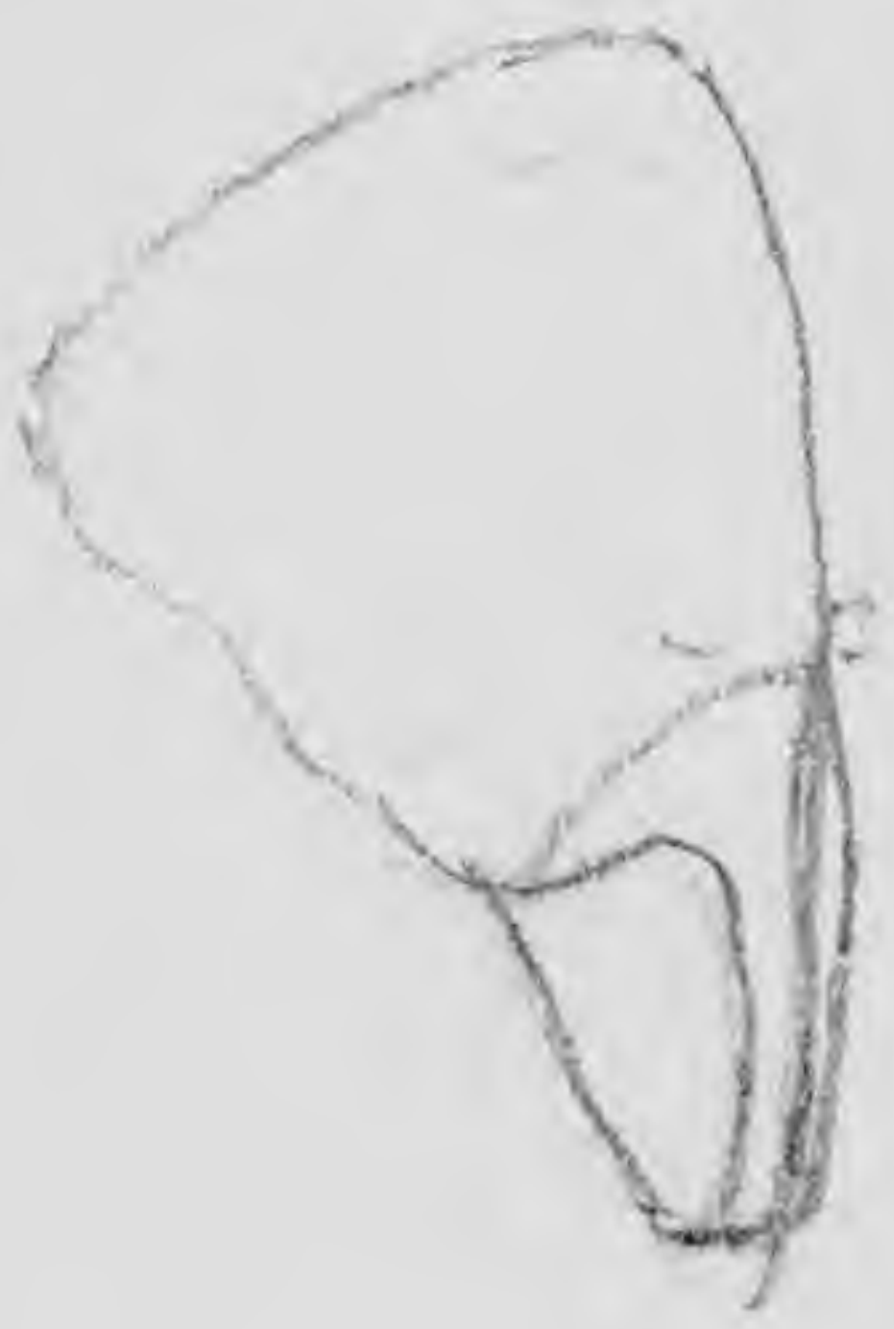

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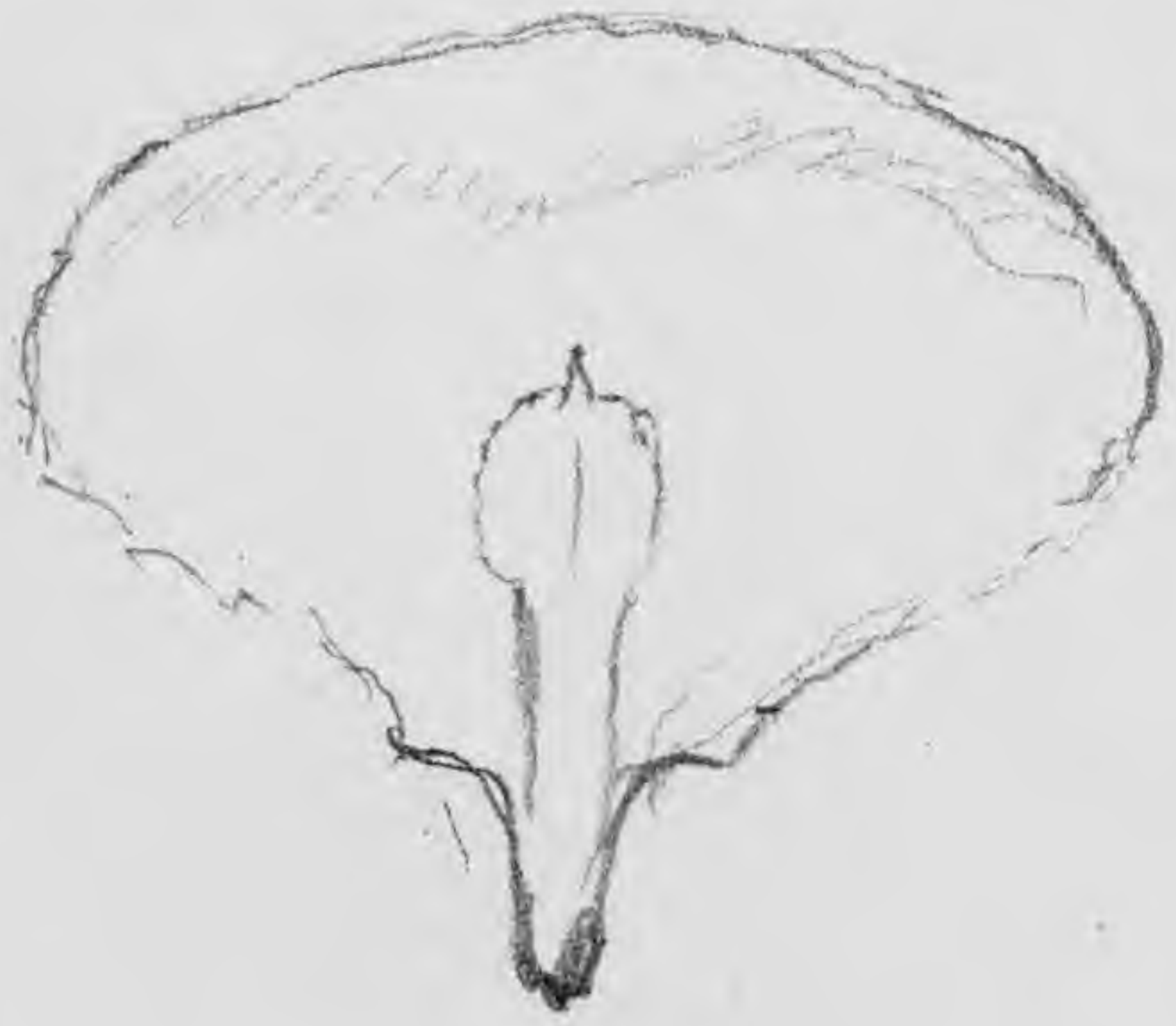
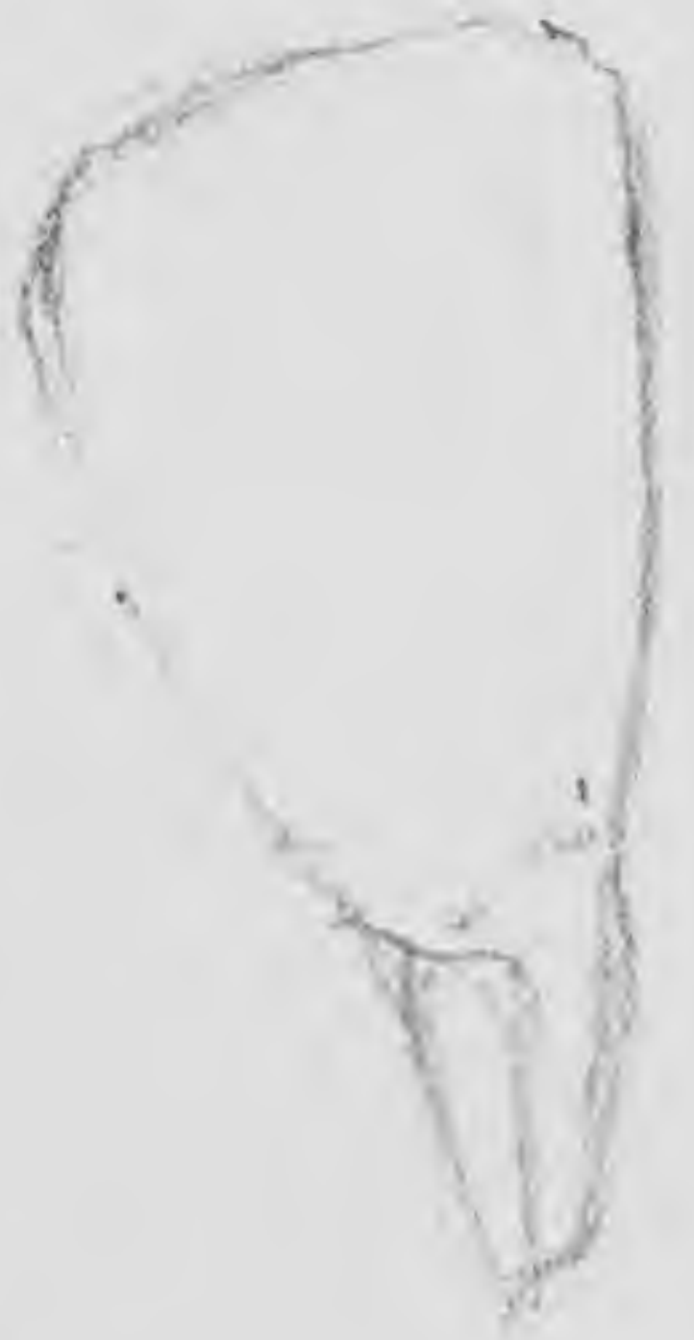
Abies Pinsapo   Oct 7 1870
var Numidica, (Coss. ?)
Boissier mss

scale 28–30 : 18–19 mm

3 : 2





very immature

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Milford, Del.—Brilliant aurora 10th; wells rising 20th; pleasantest day 25th.

Woodlawn, Md.—Ice leaving the Susquehanna 24th to 28th; snow visible all month, and 14.2 inches fell in the month, but very little sleighing.

Hampton, Va.—Robins 1st; crocus 23d; willow in leaf 25th; frogs 28th.

Surry, Va.—Month wet, cloudy; little farm work done; coldest winter day December 25, warmest 26th inst.

Piedmont, Va.—Distant thunder, frogs, doves cooing, 25th; no snow, roads good, springs low for the season.

Lynchburg, Va.—Bright aurora 12th; nearly a foot of snow this month.

Wytheville, Va.—Blue birds 11th; bright aurora 12th; doves cooing 20th; thunder and lightning, frogs, 21st; snow 22d, 27th.

Albemarle, N. C.—Wet month, no snow; crocus and daffodil 28th.

Unionville, S. C.—Thunder and lightning 5th; frogs 28th.

Berne, Ga.—Thunder and lightning 9th, 13th, 24th, 26th; destructive gale and drenching rain 18th; frost 28th.

Quitman, Ga.—Thunder-storms 1st, 12th, 13th, 26th; heavy wind and rain storms 17th.

Rockville, Ala.—Thunder 5th, with lightning 12th; Chickasaw plum blossoms 20th, peach tree 23d.

Coatopa, Ala.—Frost, ice, 15th; peach and plum blooming 18th.

Moulton, Ala.—Month mild and pleasant, last days summer-like, frosts 15th and 19th; rains sufficient.

Jacksonville, Fla.—Mean heat of month about 2° above average, rainfall below average, vegetation forward.

Sand Fly, Te.x—Heel flies 22d; peach and plum trees in full bloom 26th.

[illegible] 21st.

[illegible] ckberry and wild apple in bloom, mocking birds nesting, young figs plentiful, 28th.

Brookhaven, Miss.—Doves 3d; green lizards 17th; toads 20th; large butterflies 22d; only white frost this month, 28th.

Helena, Ark.—Tornado with thunder and lightning, destroyed lives and houses, 17th.

Clarksville, Ark.—Frogs 4th; frost 13th; wind and rain storms 23d.

Elizabethton, Tenn.—Thunder-storm 5th; tree toad 20th; freeze 28th.

Greenville, Tenn.—Remarkable thunder-storm 5th and 6th.

Shelby City, Ky.—Frogs 19th; but little snow all winter.

Pine Grove, Ky.—Thunder showers 5th; sleet, snow, hail, 6th.

Salem, Ohio.—Auroras 3d, 10th; meadow larks 22d; robins 24th.

Painesville, Ohio.—The driest month in a very dry winter.

Cleveland, Ohio.—Robins 20th; violets 24th; ice in the river broken up 25th; February temperature for sixteen years, 29°.18; winter, 29°.16; for sixteen years, 28°.96.

North Bass Island, Ohio.—Crows 21st; bluebirds 24th; hawks 25th.

Bowling Green, Ohio.—Robins, bluebirds, 14th; no thunder-storms.

Urbana, Ohio.—Mean temperature 3°.08 above last February, and nearly 3° above the February average of nineteen years.

Jacksonburg, Ohio.—Rain, hail, sleet, 5th, 12th; snow-storm 27th.

Detroit, Mich.—Snow, heavy rain, snow, 17th, 18th; bluebirds 24th.

[illegible]

[illegible]

Ann Arbor, Mich.—Month open, moderate; bare ground at close.

Litchfield, Mich.—Robins, bluebirds, 28th. Little sleighing this month.

Grand Rapids, Mich.—Much sleighing (64 days) this winter.

Northport, Mich.—Coldest winter day 5th. Winter mild, good sleighing; earth now bare, and bay and lake open.

Copper Falls, Mich.—Splendid auroras 11th, 12th; sheet lightning 23d.

Ontonagon, Mich.—Warm, pleasant month; little ice in lake.

Fort Wayne, Ind.—Auroras 10th, 16th; frost out of ground, third time, 22d.

Vevay, Ind.—First copious rain in many months 17th; robins 24th, crocus 25th; rain all day and night 25th, 26th.

Mount Carmel, Ind.—First heavy rain in several months 17th, 18th.

New Harmony, Ind.—Thunder-storms 5th; heavy rains 16th, 17th, 25th.

Aurora, Ill.—Best and most sleighing in twenty years.

Belvidere, Ill.—Good sleighing till 23d; very high wind 24th.

Wyanet, Ill.—A hazy month, some days very thick.

Hennepin, Ill.—Thunder-shower 24th. Month mild.

Havana, Ill.—Thunder 5th; ice out of river 18th; robins 24th.

Dubois, Ill.—Bluebirds 4th; frogs 7th; all-day rain, flood, 17th.

Mount Sterling, Ill.—Spring birds 10th; roads drying, frost gone, 27th.

Oquawka, Ill.—Heavy wind and rain with lightning 24th.

Milwaukee, Wis.—Heavy storm—at San Francisco 20th; at Corinne, Utah, 21st; at Cheyenne 22d; at Omaha 23d; here 24th; reached Portland, Me., 25th. [In some places rain, snow, hail, attended by wind and lightning.]

Embarrass, Wis.—Auroras 10th, 11th, 12th, 20th, 21st, 24th, 26th.

Tunnel City, Wis.—Thunder-storms 23d, 24th; snow gone, freshets, 28th. Ground frozen three feet deep.

St. Paul, Minn.—Only cold spell of winter 9th to 14th; lightning, no thunder or rain, 24th. Warmest winter in twelve years, except 1862–'63, and 1868–'69.

Minneapolis, Minn.—Mildest February since 1865.

Oak Lake, Minn.—Most beautiful February known here.

Bowen's Prairie, Iowa.—Severest gale this winter, 28th. Month warm.

Guttenburg, Iowa.—No sleighing all winter; fine season for cattle.

Independence, Iowa.—Winter very mild and even temperature.

Boonesboro', Iowa.—But two inches rain and melted snow from November 10th to 23d instant. February free from storms or rough winds, generally.

Hematite, Mo.—Martins 16th; frogs 20th; meadow larks 23d.

Rolla, Mo.—Month nearly 4° warmer than in 1870.

Oregon, Mo.—Auroras 12th, 13th, 16th, 20th, 24th, 27th.

Atchison, Kans.—Brilliant aurora 12th; heavy thunder-storm 23d.

Plum Grove, Kans.—Thunder, hail, 23d; frogs, blackbirds, 24th.

Council Grove, Kans.—First thunder-shower 16th, with hail 23d.

Nebraska City, Neb.—Latter part of month very pleasant.

Newcastle, Neb.—Little snow this winter, weather pleasant.

Watsonville, Cal.—Gale and thunder-storm 20th; willow in leaf 28th.

Visalia, Cal.—Winter colder than usual.

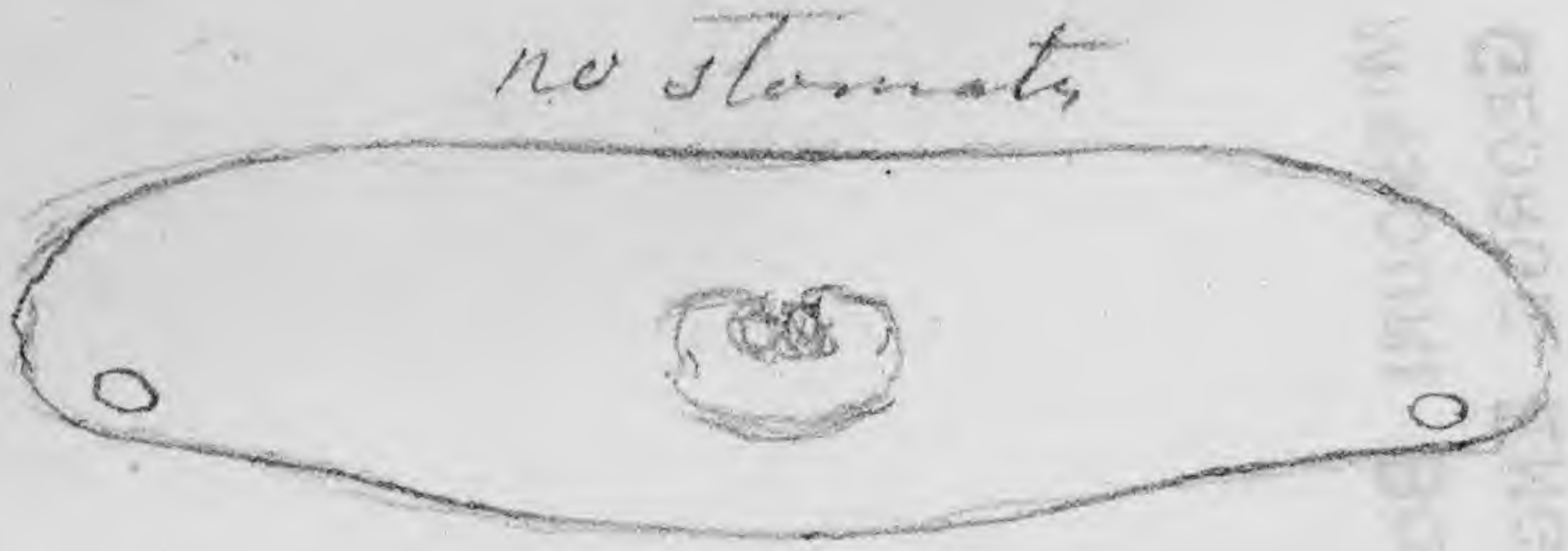
Deer Lodge City, Mont.—Auroras 11th, 12th, white light.

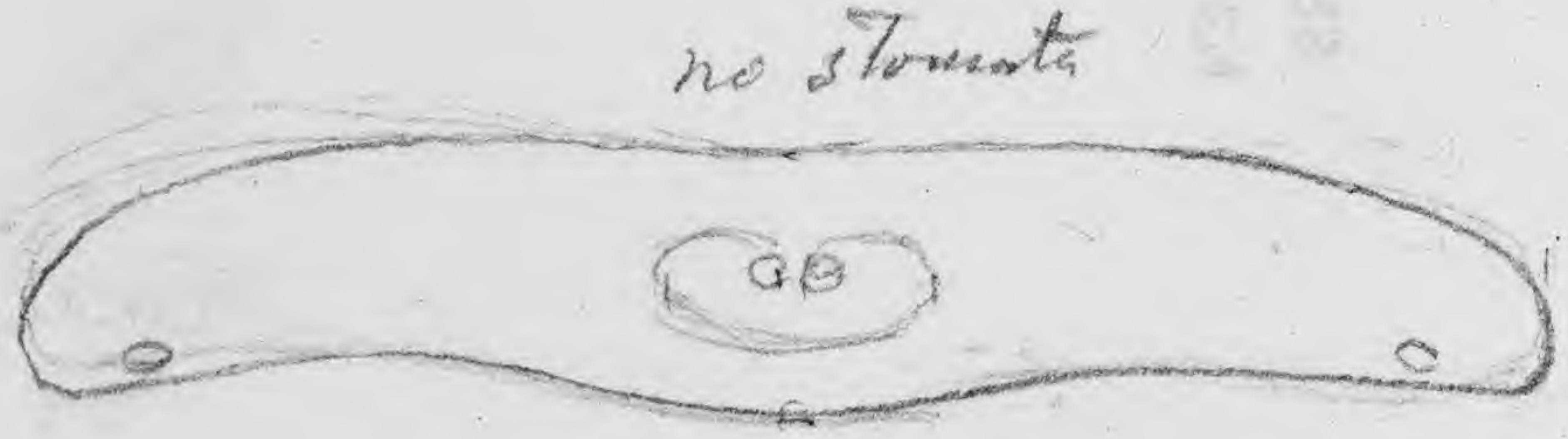
Missoula, Mont.—Bright auroras 11th, 12th, streamers.

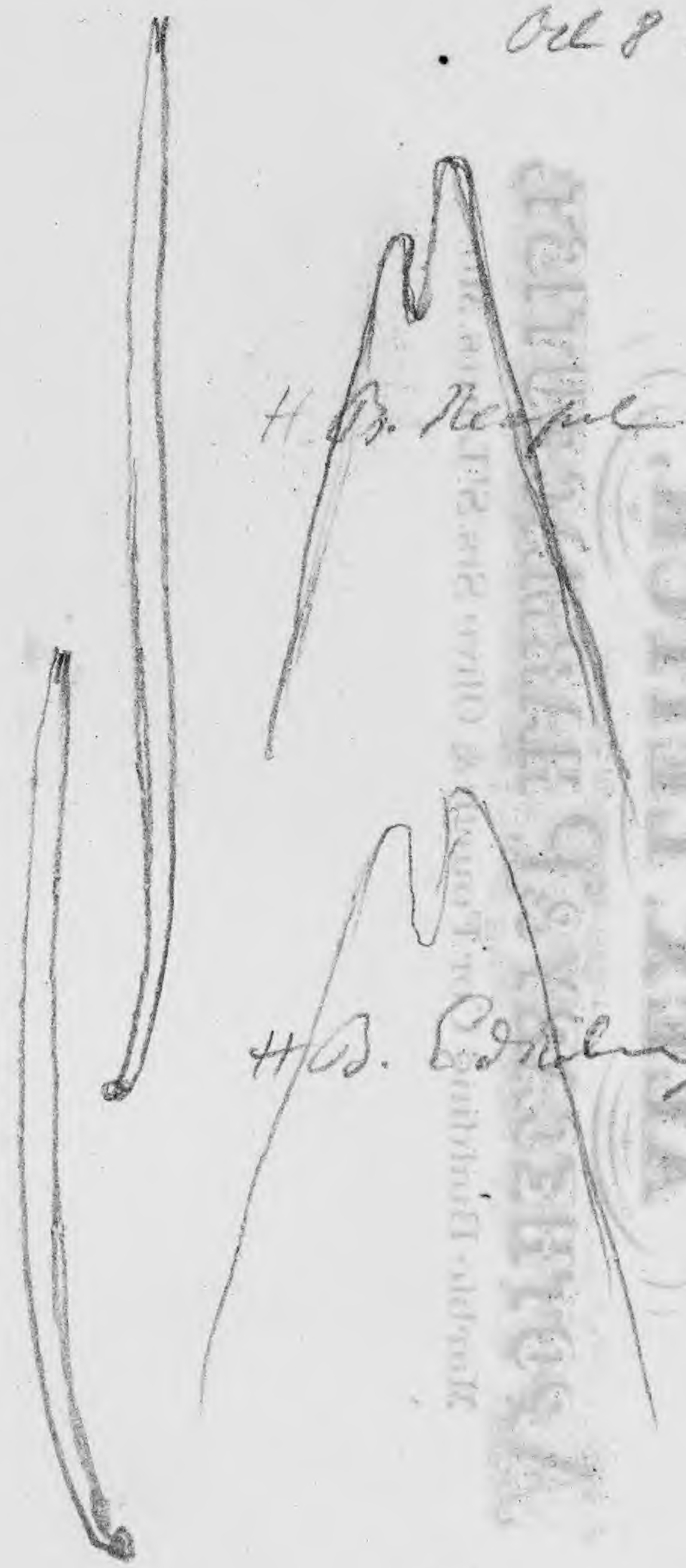
13037

Abies Pindrow

Oct 8 1875







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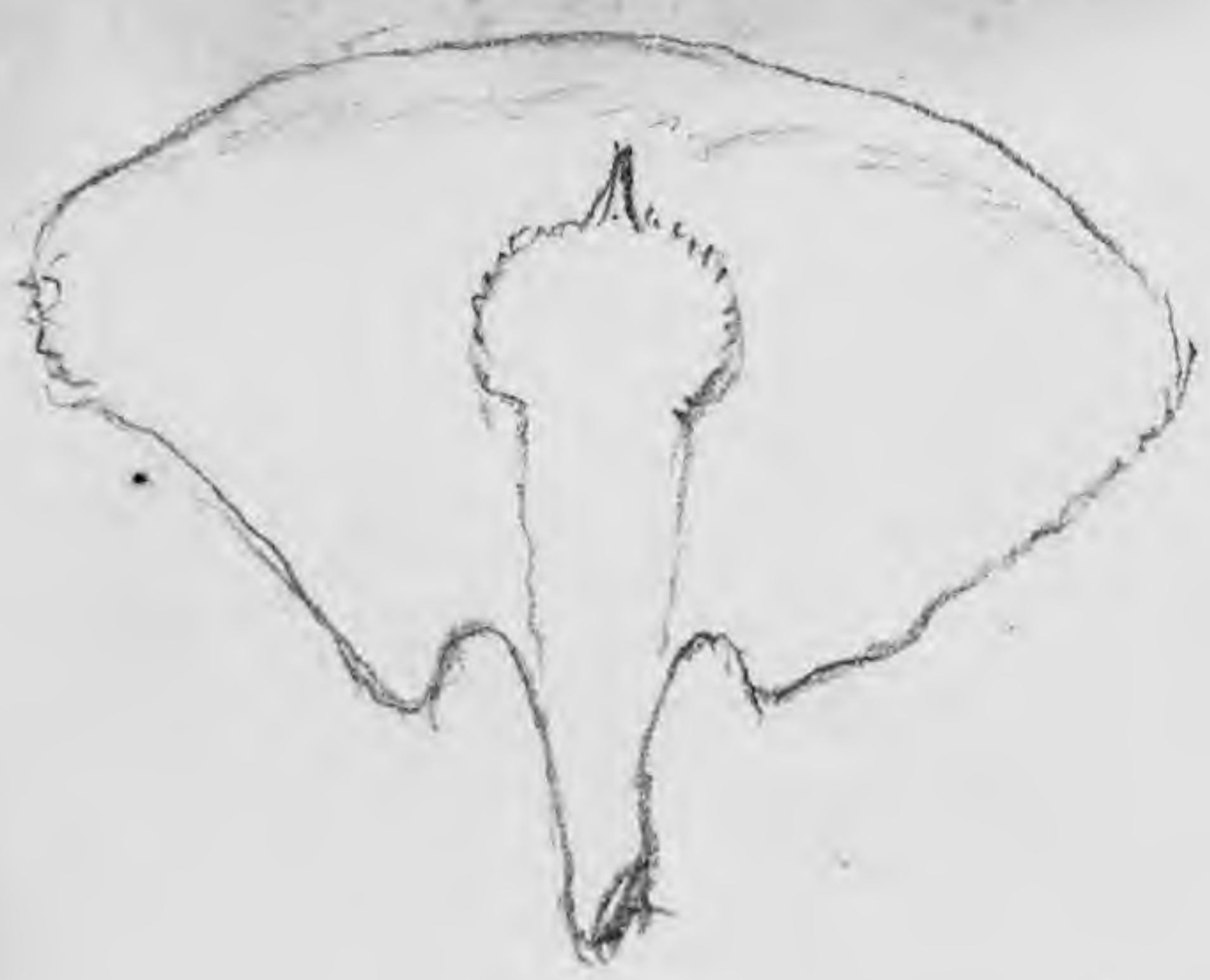
13038

Porrect. elongata inclus. Abies Webbiana Octob 5 1870

ex Himalaya — in Mus Kew



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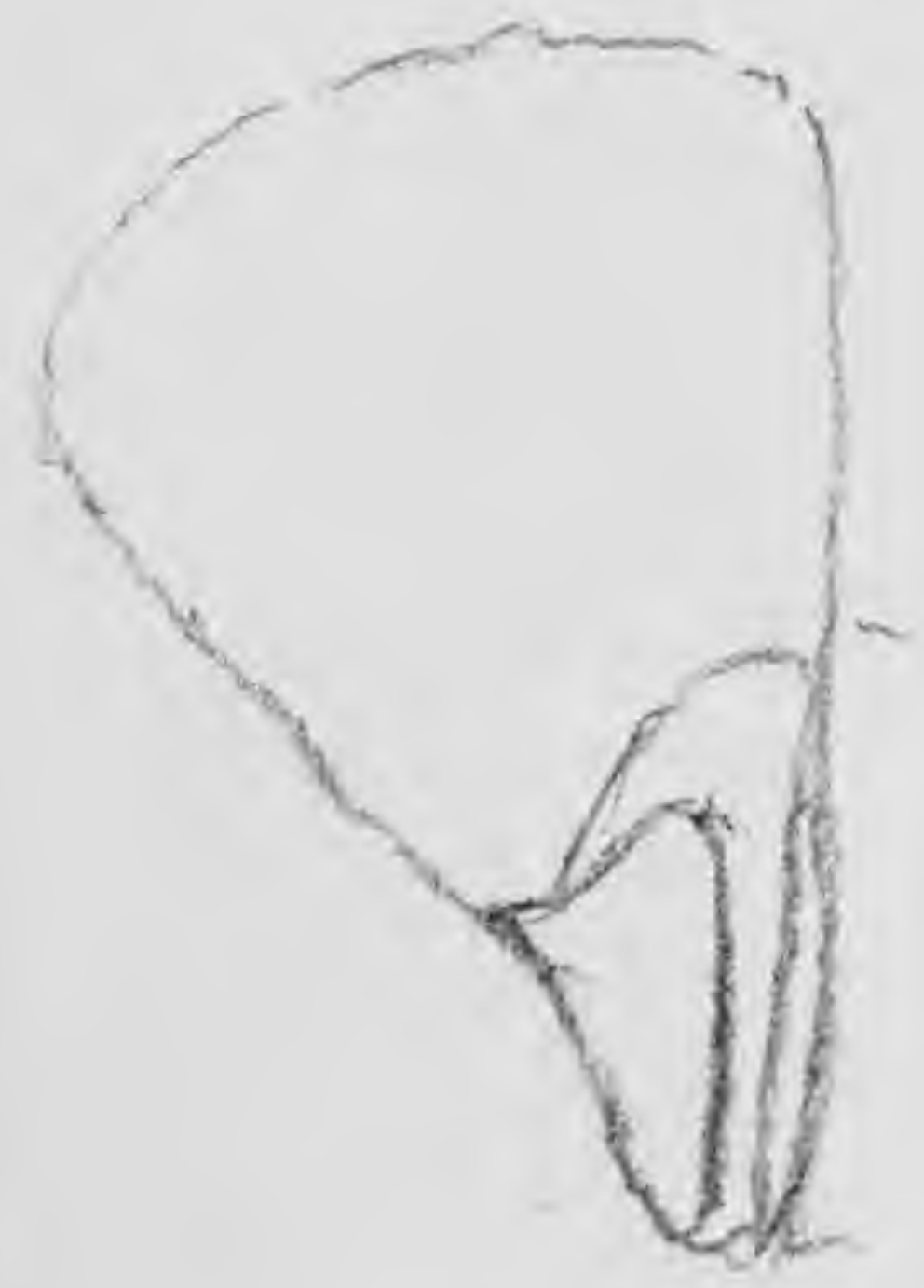

Taken from Lamb

Loudon arbor. 2345 : a very short mutic bract

Carrière 224: only a translation: bractée très courte etc.

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18039

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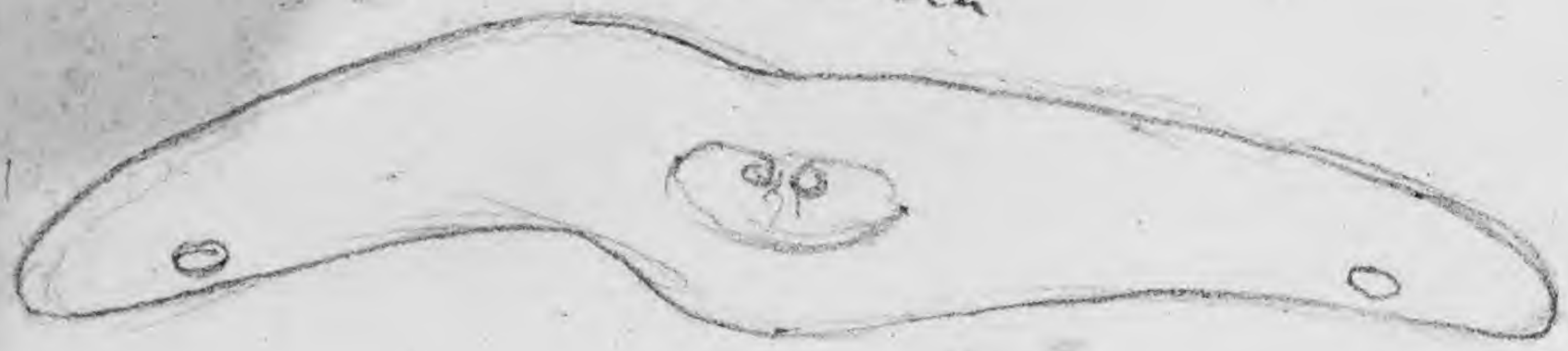
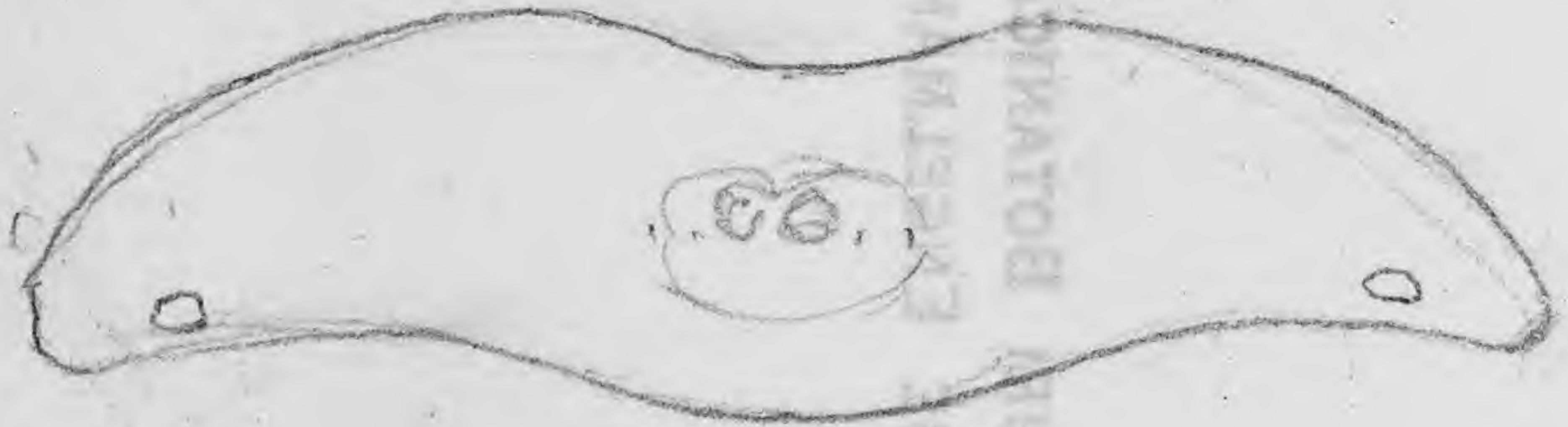
Abies Webbiana

Oct 8 1875

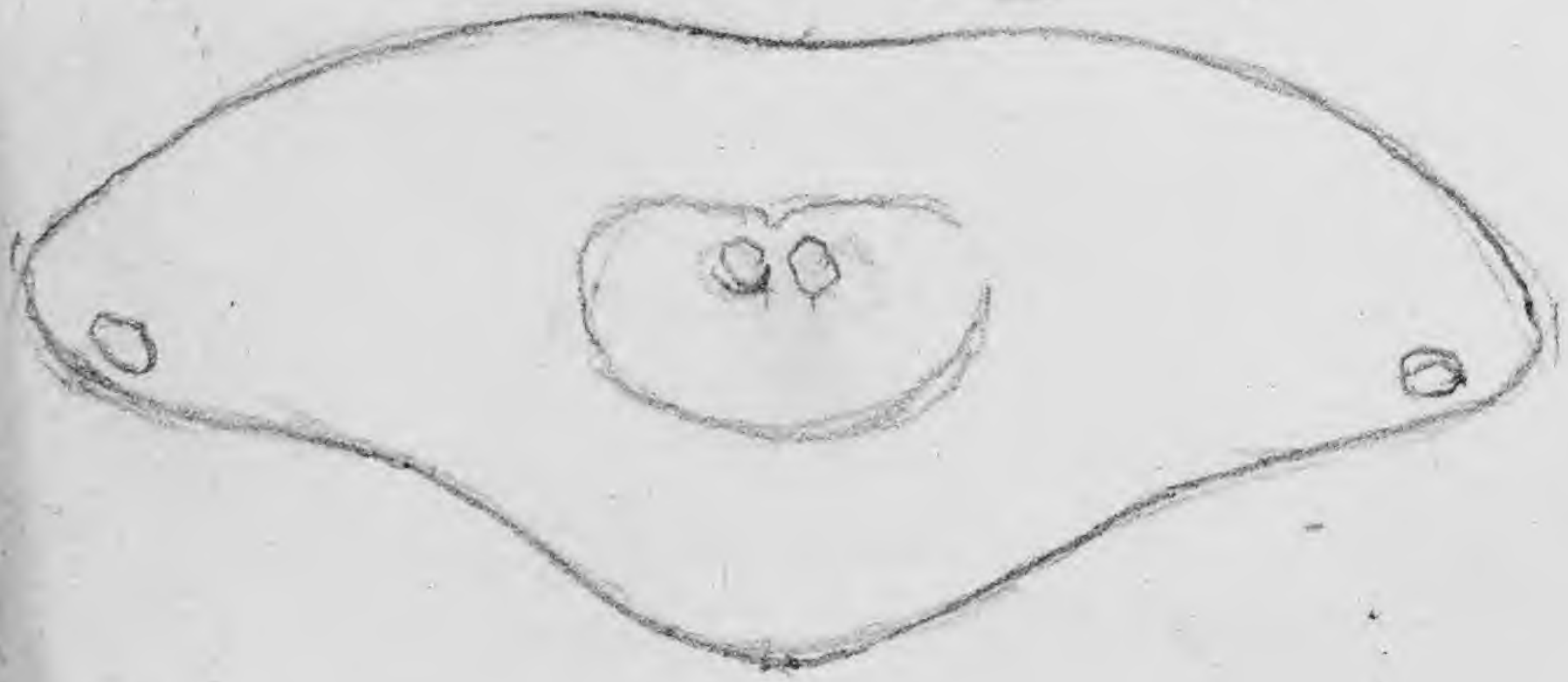
no stomata

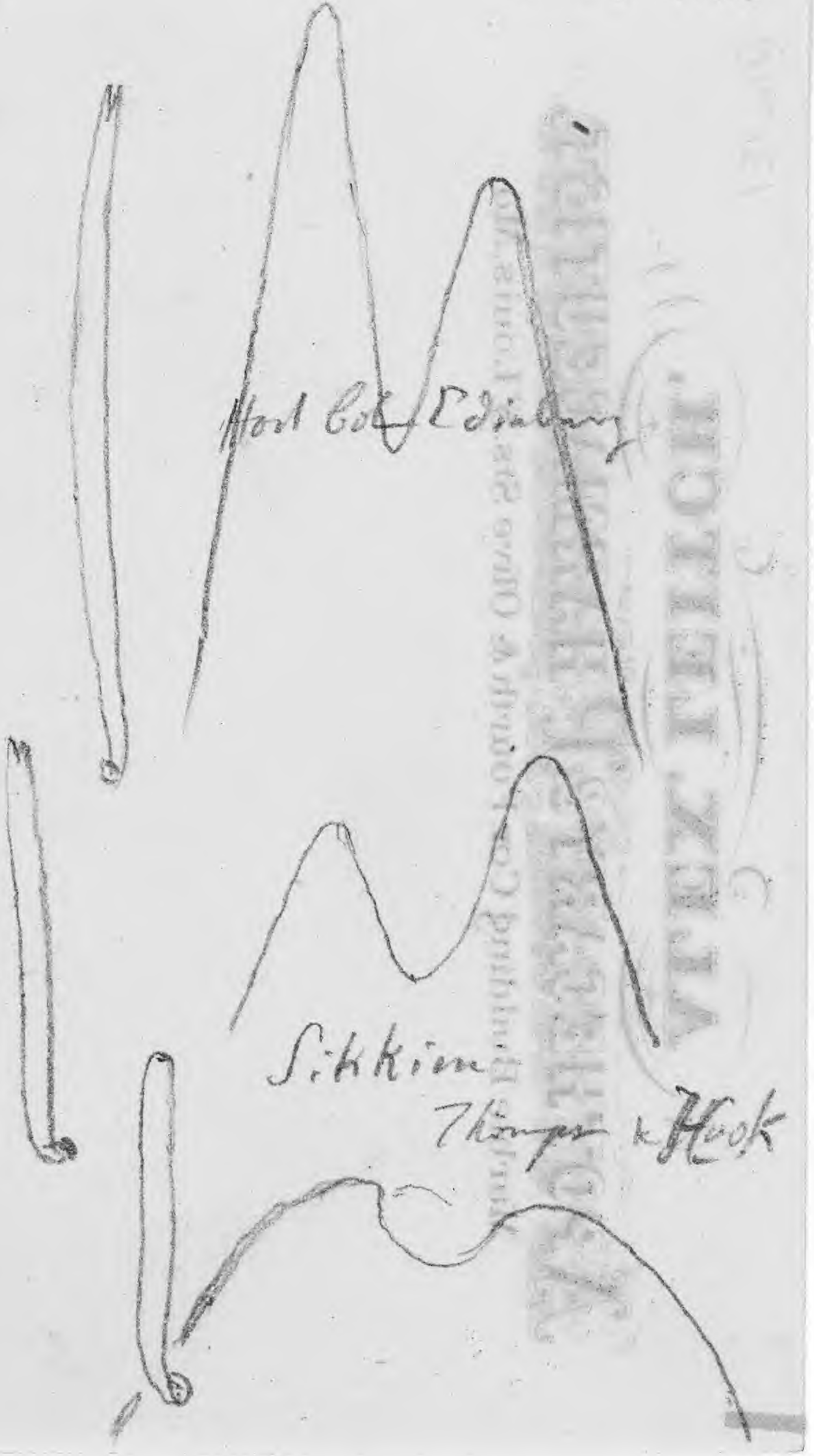


no stomata



few stomata near Tip





Hort bot. Edinburg

Sikkim

Thomps & Hook

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(The author adds that Prof. BILLROTH has accepted this proposition, as may be seen from the last edition of his Gen. Surg. Pathology.)

This experimenter, therefore, seems to have satisfied himself that, in this phenomenon also, it is the wandering cells which play the important part of organizers, though he considers most of them as descendents of the connective tissue elements in the vicinity. At the same time he denies that the epithelium of the vessel is at all concerned in the process.

More valuable even than the above is the series of experiments by Dr. E. AUFRECHT,[‡] originally instituted with a view to determine the question of the new-formation of striated muscle, but resulting in most surprising revelations concerning the genesis of connective tissue, and the healing of wounds by first intention.

The experiments performed on rabbits and guinea-pigs consisted in the infliction of wounds on the skin of the back, the glutæi and erectores spinæ muscles, as well as penetrating wounds of the abdomen. In wounding the dorsal muscles, the incision though the skin was so made as not to correspond to the incision in the muscle. The number of animals sacrificed was 18 for the first two days, 3 or 4 for each of the following days to

A Ciliria

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[*] On the repair of arteries and veins after injury. Med.-chir. Transactions, L. p. 478, 1867.

[†] Ueber die Organisation des Thrombus. Virchow's Archiv, XLIV., p. 462, 1868.

[‡] Virchow's Archiv, XLIV, p. 180, 1858.

TH and others accepted this position, confirmed by observations of their own. "I confess," says BILLROTH,* "that I formerly myself strenuously objected to the assumption that the blood could of itself organize into connective tissue with vessels; but after the examination of transverse sections of thrombosed arteries I have become convinced of it. . . . Whence do these new-formed cells come? I doubt not but that they arise from the white blood corpuscles. . . . Moreover, that these cells carry with them the faculty of further development is obvious, from the fact that their nuclei, while the cells are in the blood current, divide, for we frequently find white blood cells with two, three, or four nuclei." Finally LEE and

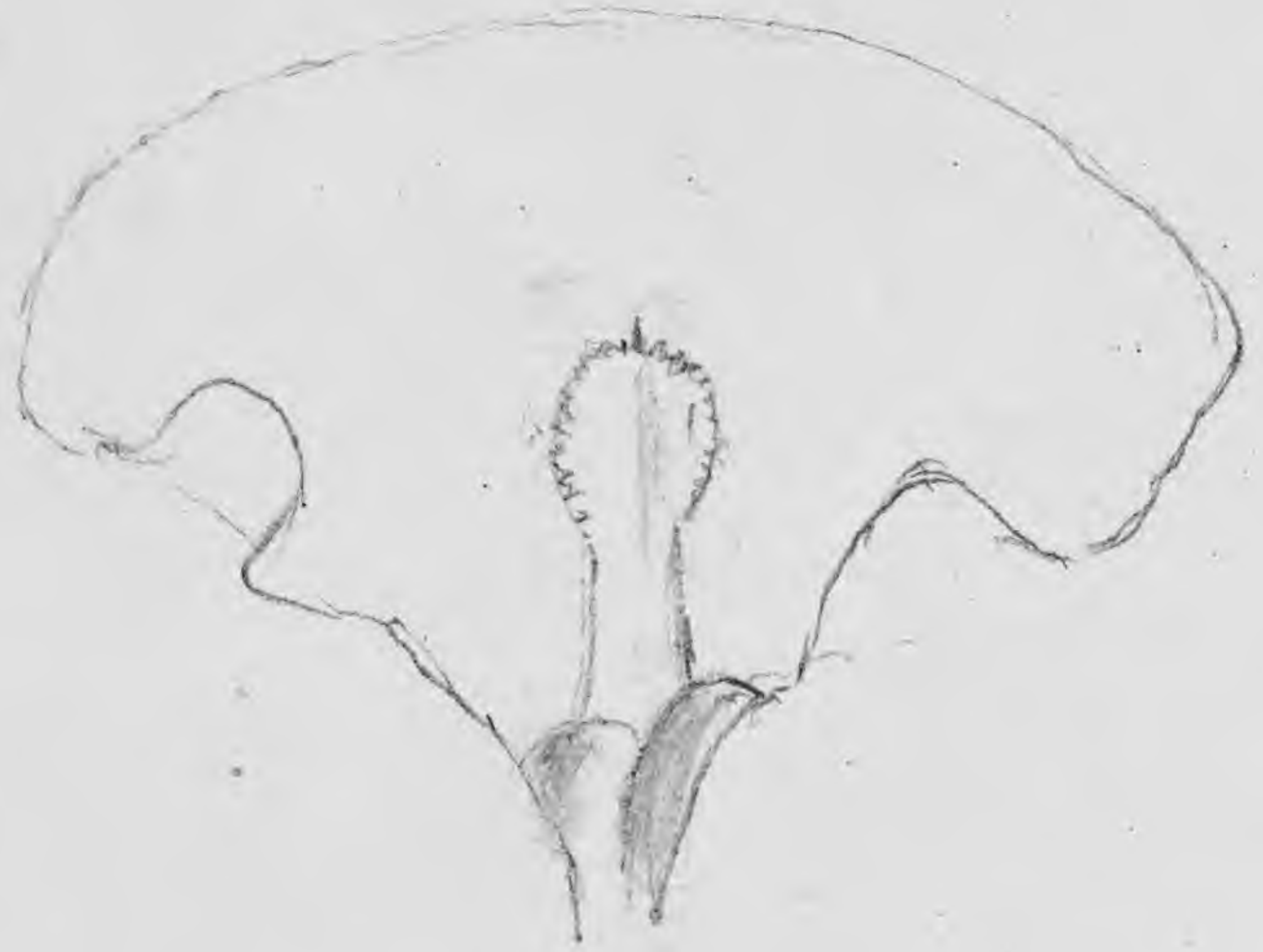
---

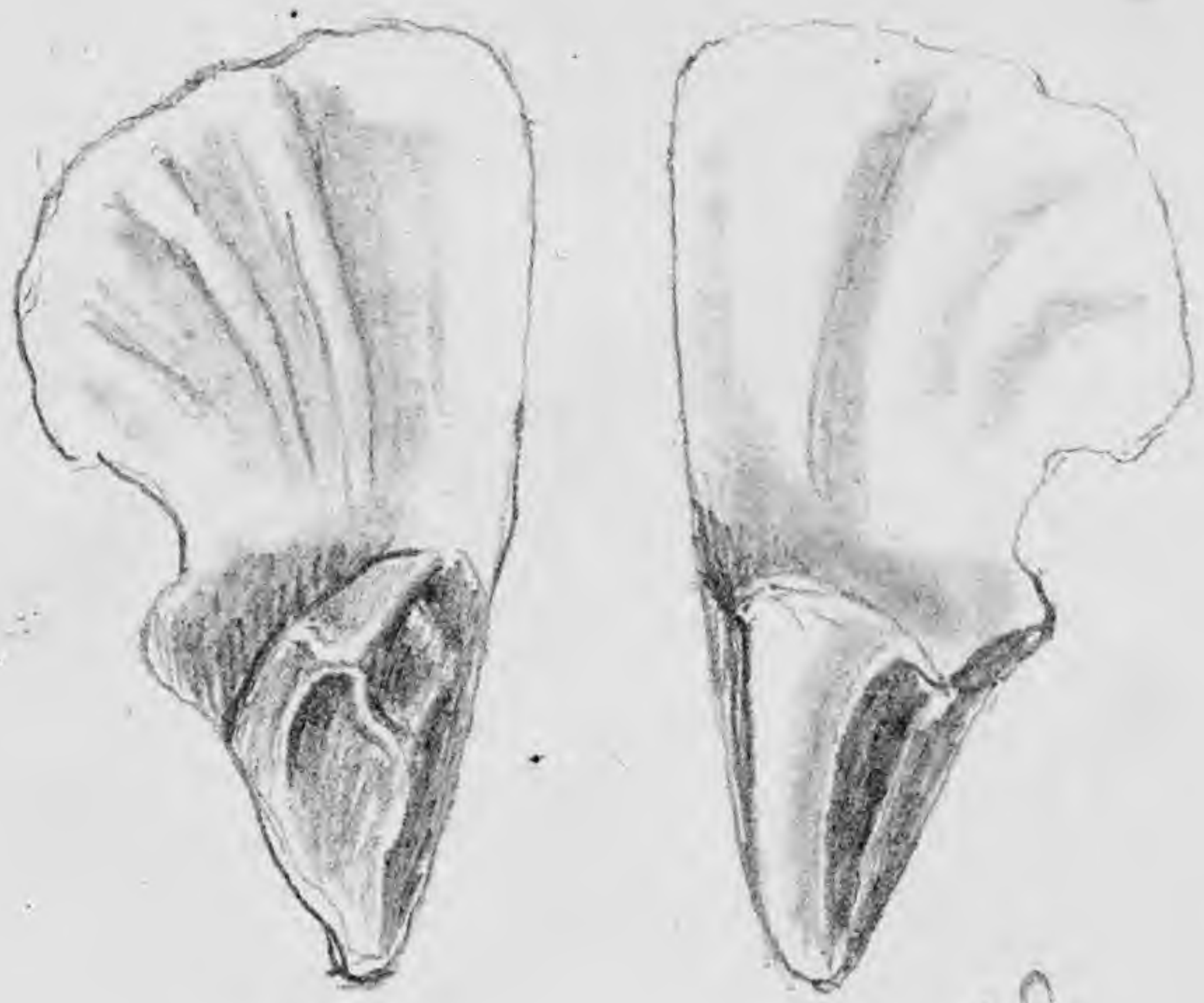
* Allg. chirurg. Pathologie u. Therapie. (Lectures on General Surgical Pathology and Therapeutics.) 2d ed. Berlin, 1866. p. 122.

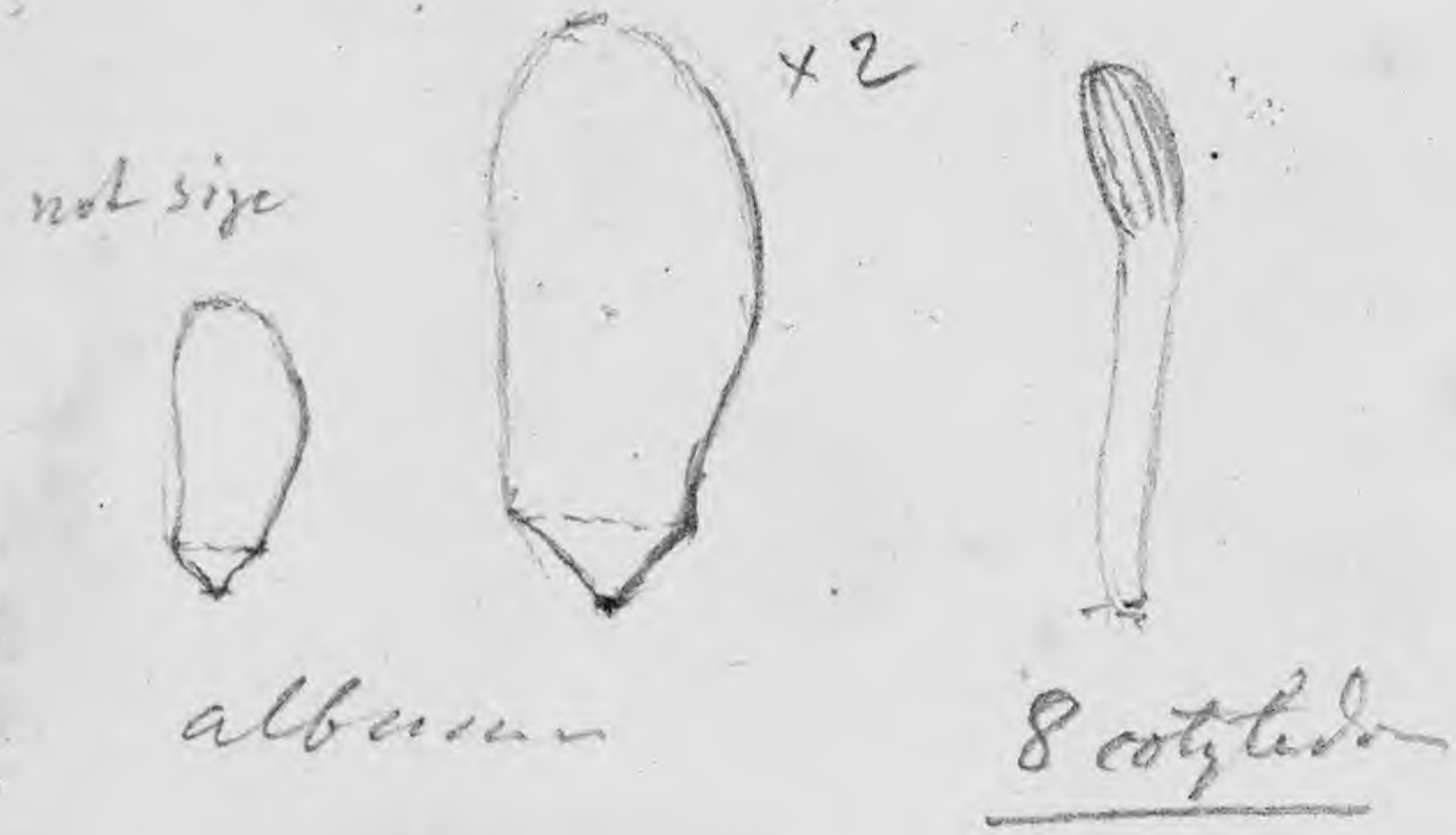
13041

Abies Cilicica July 8 1865

Ex coll. Humboldt







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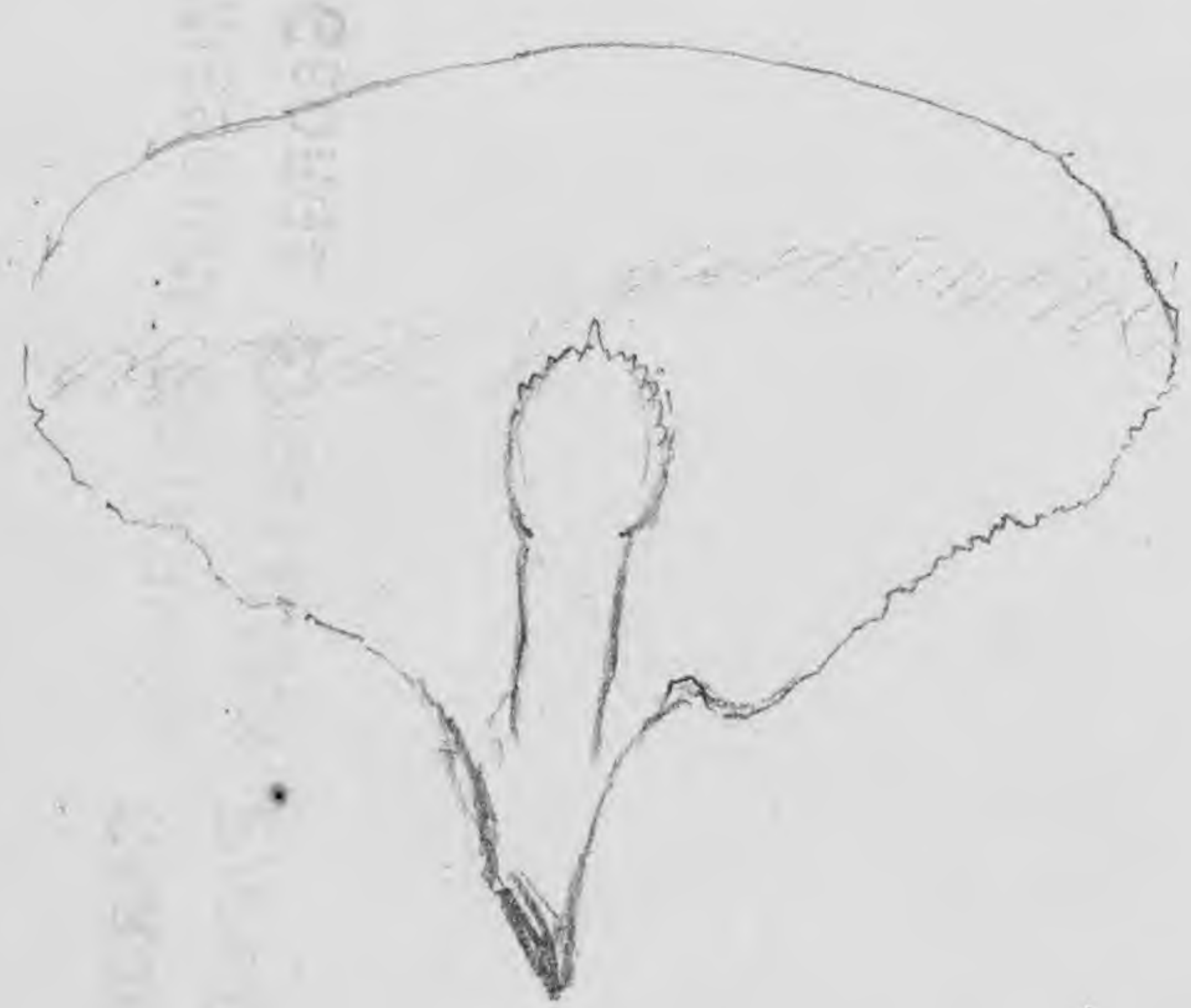
13042

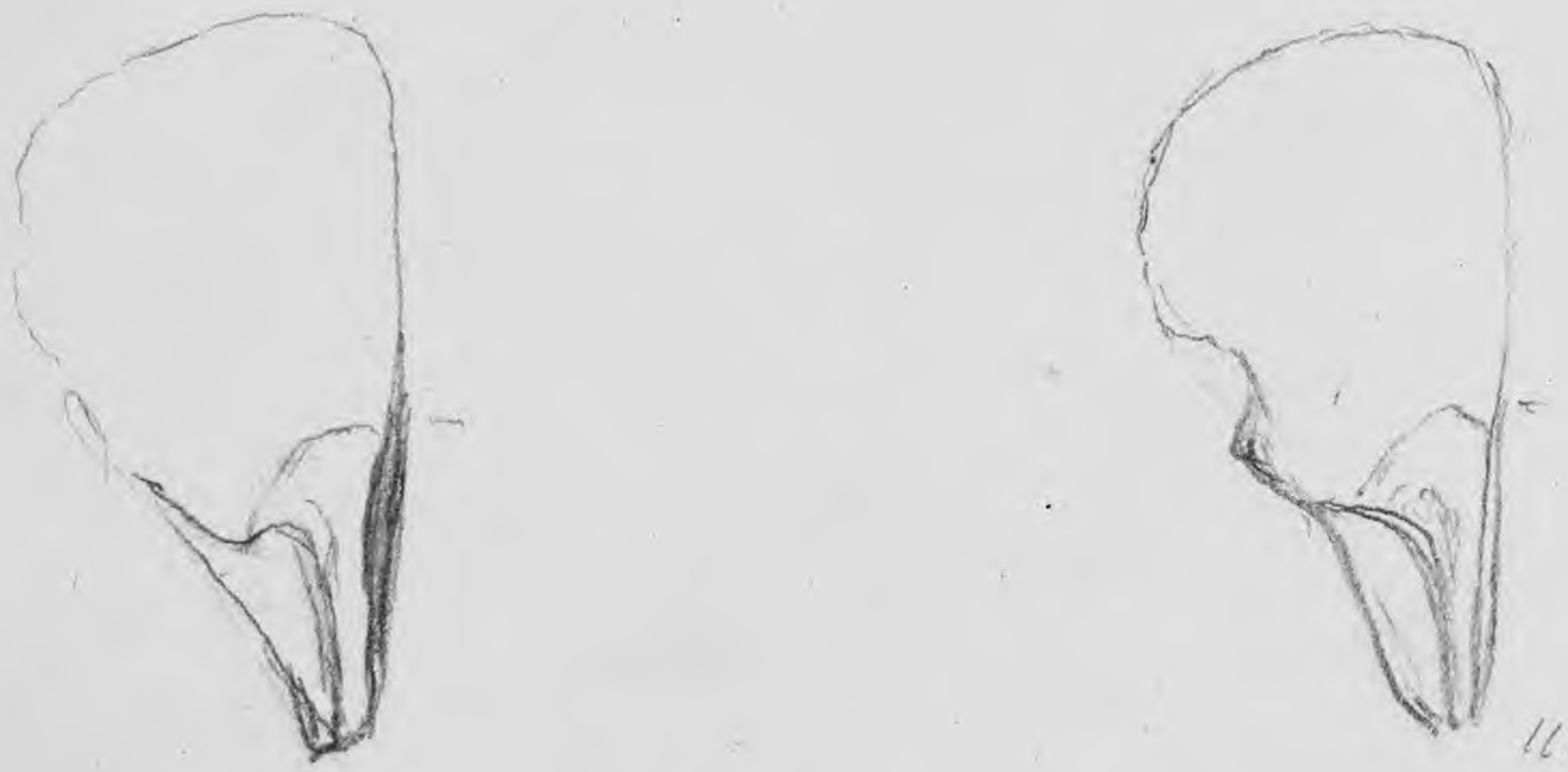
Bractea elongata involuta Abies Cilicica Antoine & Kotschy Oct 4 1870

(Kotschy ?) ex coll Humboldt
by L. Gast.



45 × 26 mm 3½ : 2

corresponds with the description of Antoine & Kotschy publ. 1853. see Walp. Ann I. 799



unusual

seed of the same cone

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Abies Cilicica Ant. & Kotschy, Carrière p. 229.

Bractées stipitées à stipe liguliforme, lame quadrangulaire mucron 2 mm longe, qui dépasse à peine les écailles Antoine & Kotschy [L.]

Antoine & Kotschy in Oestr. bot. W. Bl. 1853. Walp. Ann. 5. 799 !
bracteis lamina quadrata emarginata breviter setaceo-cuspidata media parte squamae incumbentibus

Tchihatcheff, fide Carrière; sends specimens which have:
"bractées en lame mince, puis dilatées, cordiformes à très-court mucronule le tout arrivant aux deux tiers de l'écaille!

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L. O. WOODRUFF,

Druggist,

Cor. Sixth St. & Washington Ave.,

Opposite Lindell Hotel, ST. LOUIS, MO.

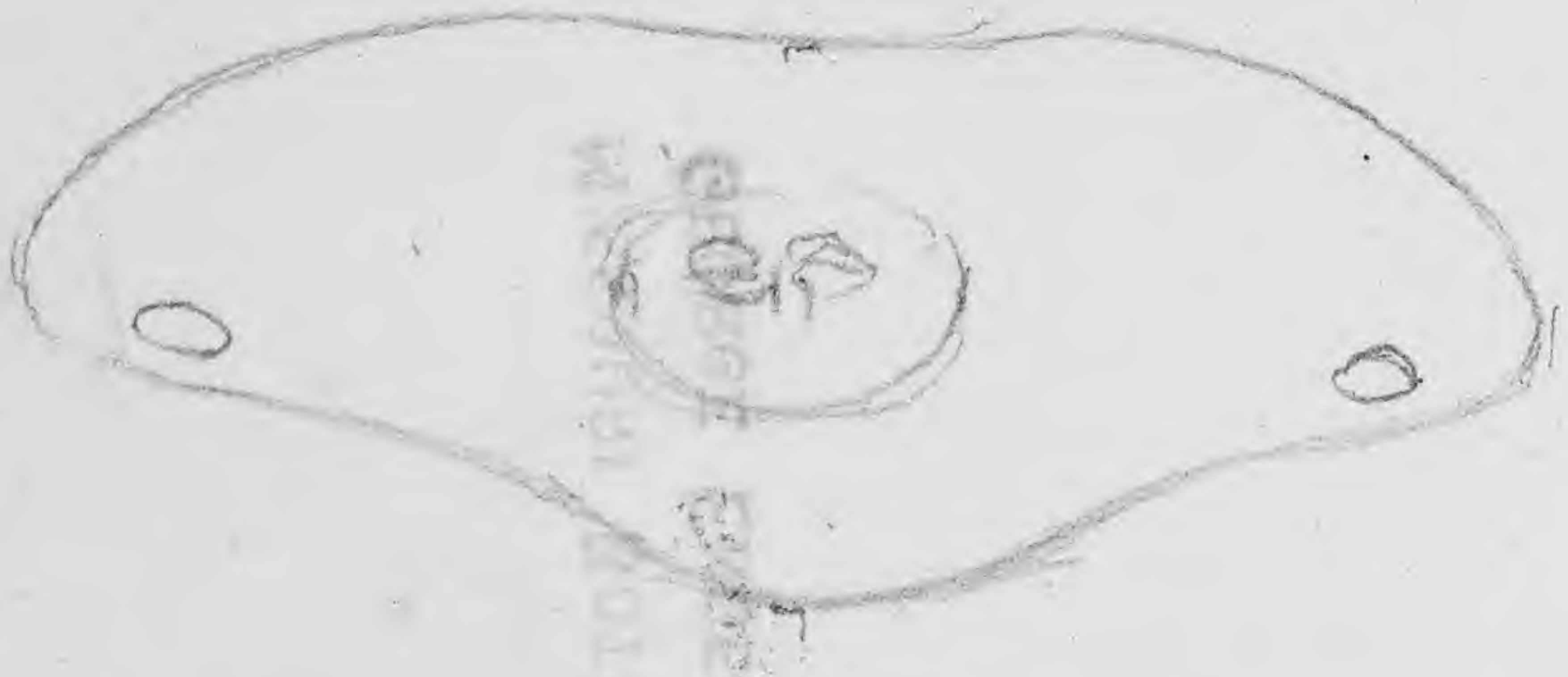
13044

Abies Cilicica
Taurus

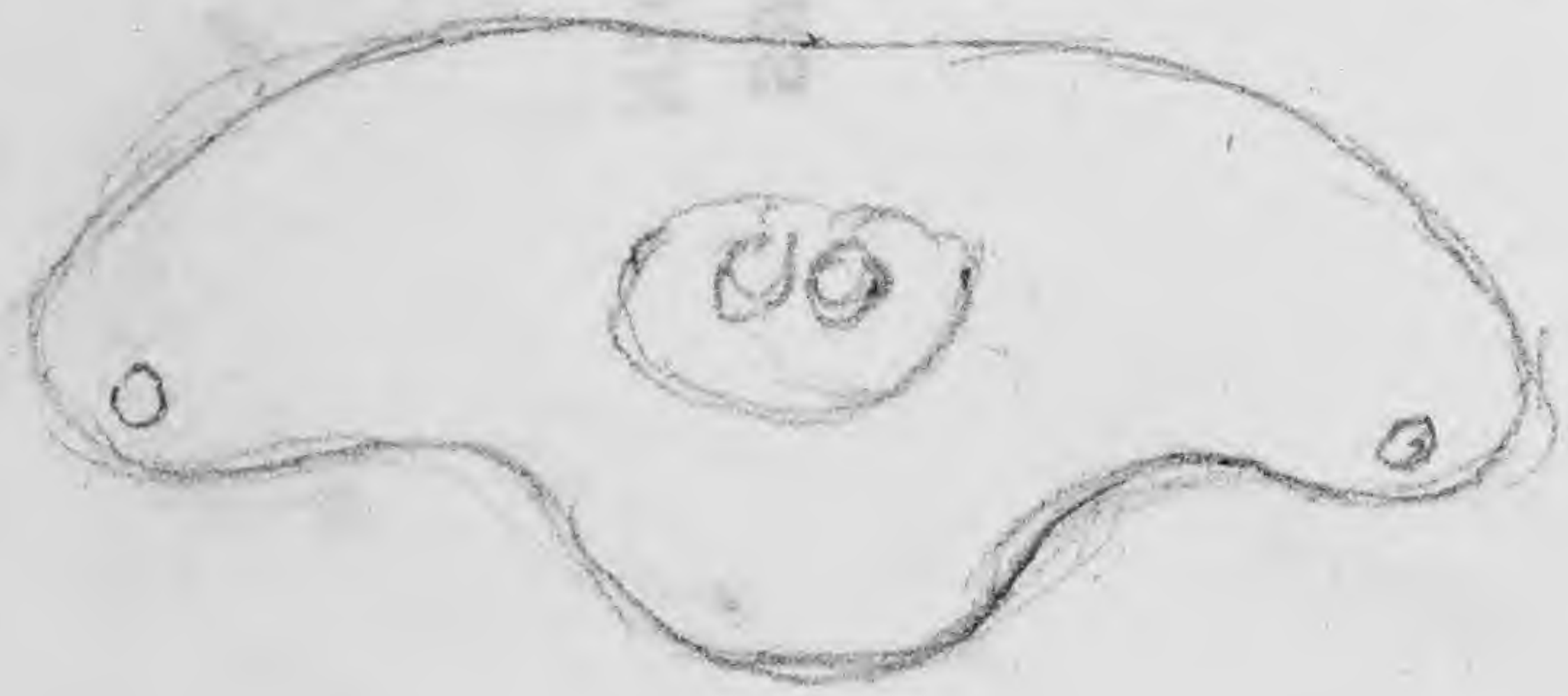
Oct 6 1875

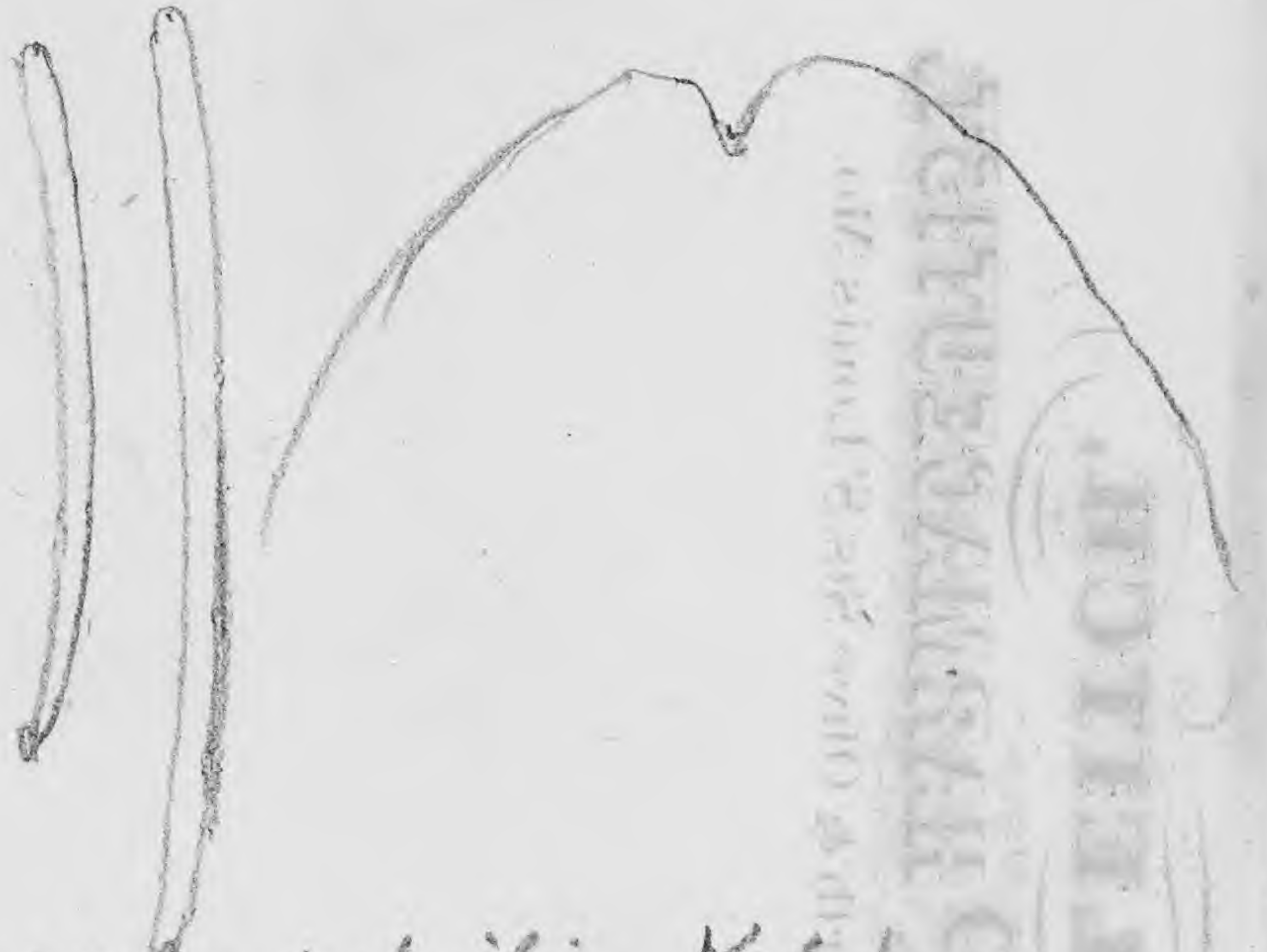
x30

no stomata

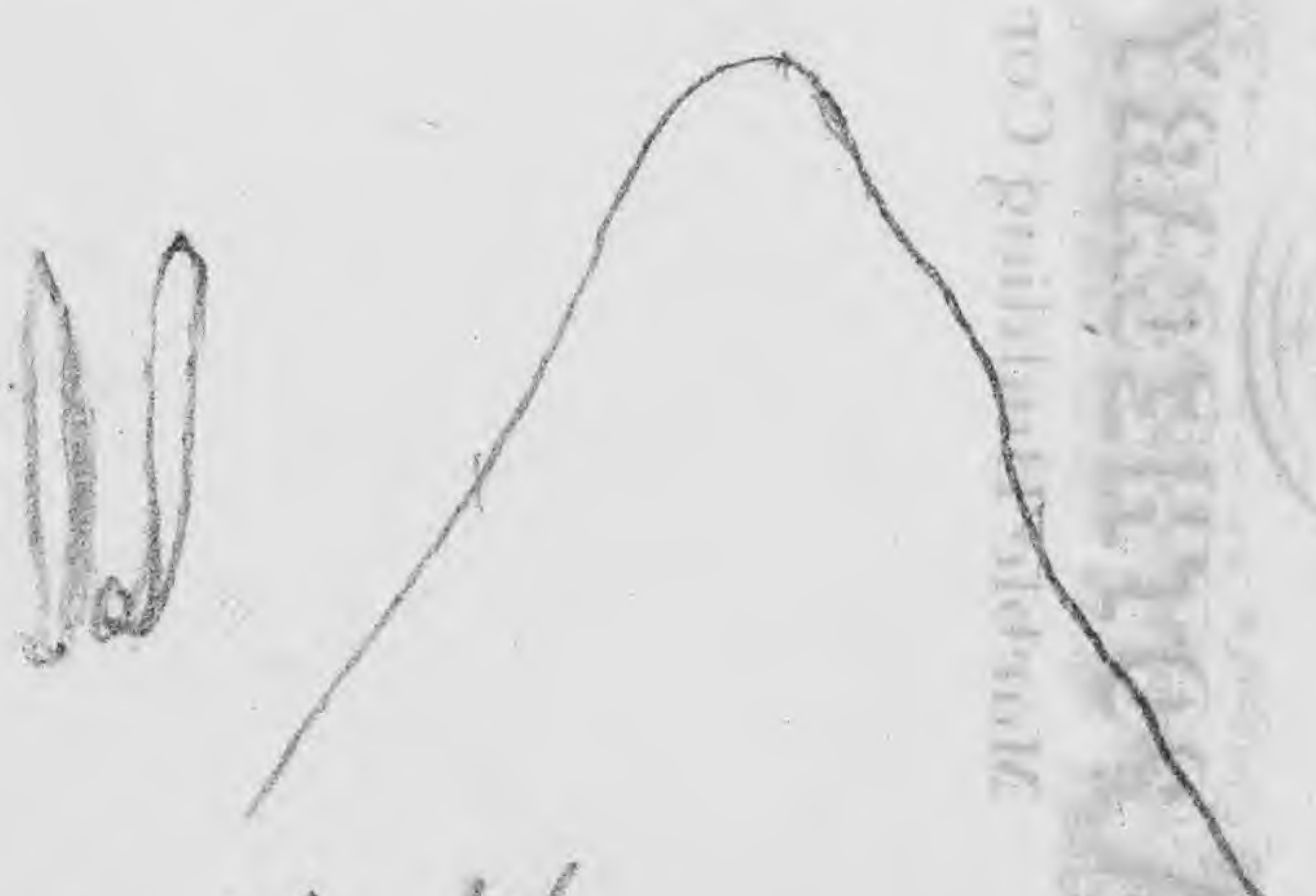


stomata abundant





fol. rami sterilis, Kotschy



folia rami fructif.
Coll Humboldt

ALEX. LEITCH,
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13045

Abies georgei sibirica

c parenchym ducts

such

(for though perhaps a ma in stature, he has all the nervousness and thoughtlessness of a boy) enters the awful presence and receives his examination paper with a beating heart. Alarmed as he has been, he still had felt a confidence in his general knowledge of what he had been studying, but this vanishes when he perceives that the most difficult passages have been selected for him to translate; lists of classes, of irregular verbs, of obscure rules and of obscurer references are called for. Examples and problems are given for his solution which appear to his excited brain more like Chinese puzzles than fair illustrations of the principles in mathematics which he thought he thoroughly understood. He is required to construct a map from memory on which he must locate with correct latitude and longitude some of the obscurest places on the globe, and he must "state precisely the character" of a thousand things,

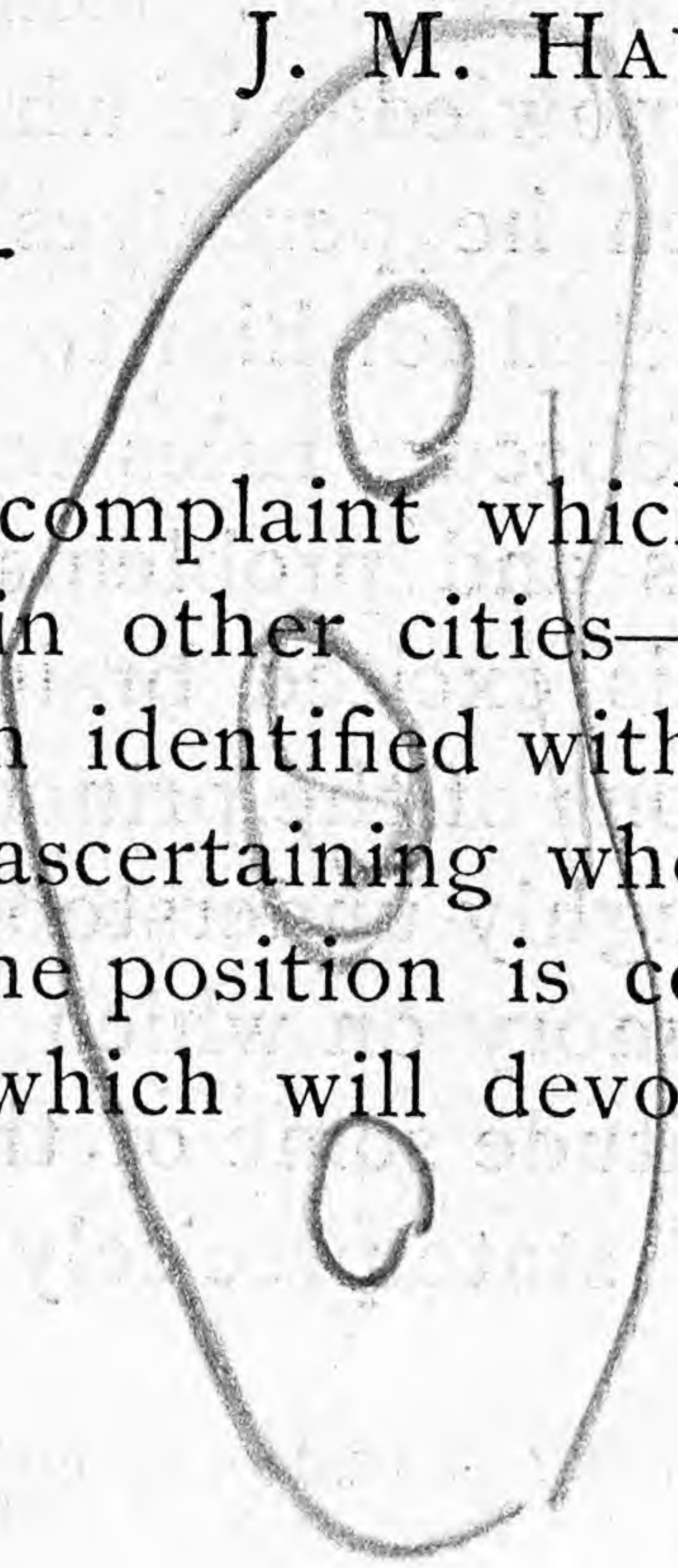
PHILADELPHI
MYERS, JR.,
URER OF THE
GLE BOILER,
For Heating by Hot Water
REEN-HOUSES, HOT-HO
CONSERVATORIES, &c.

hereafter be rigidly enforced.
be a farce, nor is it necessarily consistent with the dignity, reputation, and welfare of the college, that it should be so rigidly severe, or that a boy should be terrified or browbeaten when he puts hisfoot for the first time on the threshold of an institution where he is to be treated for the first time as a man.

J. M. HAWKINS.

* * *

THERE is heard in Pittsburgh a complaint which, says a contemporary, may well be uttered in other cities—that the office of school director is too much identified with politics, and too little attention is paid to ascertaining whether the candidate named for or aspiring to the position is competent to discharge the responsible duties which will devolve upon him.



S. birica = ~~[illegible]~~
~~Cleavage with~~ internal, very large ducts

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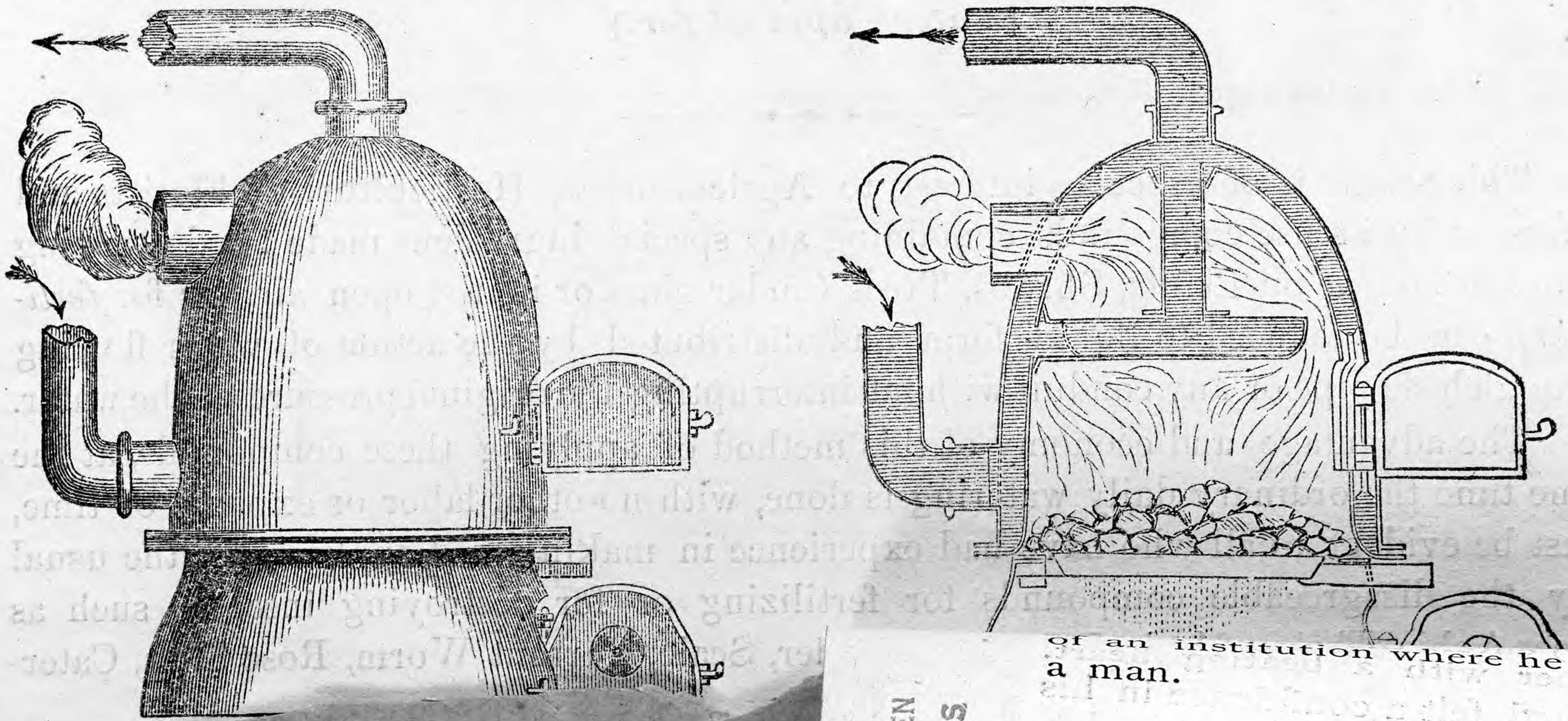
WEATHERED & CHEREVOY'S

PATENT BOILERS,



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of an institution where he is to be treated for th
a man.

J. M.

◆

THERE is heard in Pittsburgh a complaint w
contemporary, may well be uttered in other cit
office of school director is too

S. sibiricum bractea brevi

sibirica
brachyphylla
holophylla

WHEELER'S AUTOMATIC
COMPOUND LIQUID DISTRIBUTOR.

[*Patent applied for.*]

◆

This article is of especial interest to Agriculturists, Horticulturists, Florists and others, as by its use compounds containing any special ingredient made for destroying *insects* or *mildew* on Plants, Shrubs, Trees, (under glass or in the open air,) or for *fertilizing*, can be reduced to liquid form and distributed by the action of water flowing through hose-pipe or any conduit without interrupting the original pressure of the water.

The advantage and economy of this method of applying these compounds, at the same time the ordinary daily watering is done, with no other labor or expense of time, must be evident to all who have had experience in making and applying in the usual way the disagreeable compounds for fertilizing or for destroying insects, such as Green Aphis, Thrips, Mealy Bugs, Red Spider, Scale, Currant Worm, Rose Slug, Caterpillar, Canker Worm, &c.

The method of using this machine is simply to place within the globe the desired compound, which by the action of the flowing water is dissolved or disintegrated, and

esired object.

hine in the saving of time, labor, material and an-

13047

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apr

THOMAS J. MYERS, JR.,
MANUFACTURER OF THE
PATENT ANGLE BOILER.
For Heating by Hot Water
GREEN-HOUSES, HOT-HOUSES,
, &c.

---

r the first time as

M. HAWKINS.

int which, says a
r cities—that the

This article is of especial interest to
others, as by its use compounds containin
insects or *mildew* on Plants, Shrubs, Trees
lizing, can be reduced to liquid form an
through hose-pipe or any conduit without
The advantage and economy of this
same time the ordinary daily watering is
must be evident to all who have had expe

Sibirica (Balsam-
gesontige

fruits intival, very large

Sibirica

ROBERT J. HALLIDAY'S

TRADE LIST

For May.

◆

	Per Doz.	Per 100.
ABUTILON MESOPOTAMICUM VARIEGATA	$1 50	$10 00
AMARANTHUS SALICIFOLIUS—Fountain Plant	1 20	8 00
ARDESIA CRENULATA—Two years	2 40	15 00
do do one year	1 50	10 00
AZALEAS—Assorted, three years	3 60	25 00
do do two years	1 80	15 00
do **PHONECIA AND ALBA**—one year	1 50	10 00
BEGONIAS—Flowering varieties in six kinds	1 50	10 00
do Foliage variegated.	1 50	10 00
BALM VARIEGATA	1 20	8 00
BASELLA RUBRA VARIEGATA	1 50	10 00
COBEA SCANDENS	1 80	12 00
CHRYSANTHEMUMS—In thirty kinds	1 50	10 00

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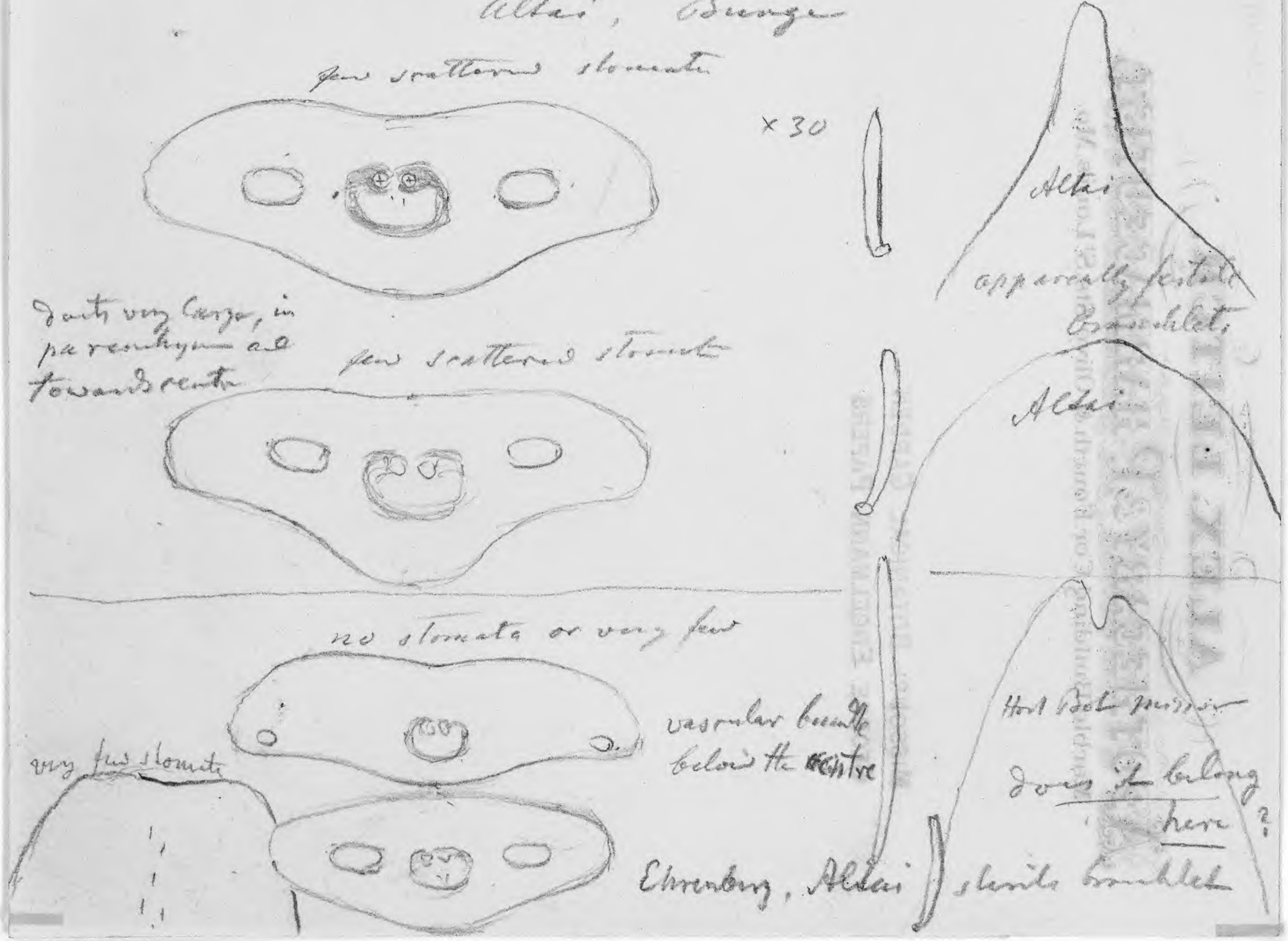
GEORGE ENGELMANN PAPERS

13048

Abies sibirica

Altai, Bunge

Octob 7 1875



few scattered stomata

× 30

ducts very large, in parenchyma and towards centre

few scattered stomata

no stomata or very few

vascular bundle below the centre

very few stomata

Ehrenberg, Altai

sterile branchlet

Altai

apparently fertile branchlet

Altai

Hort Bot. Missouri

does it belong here?

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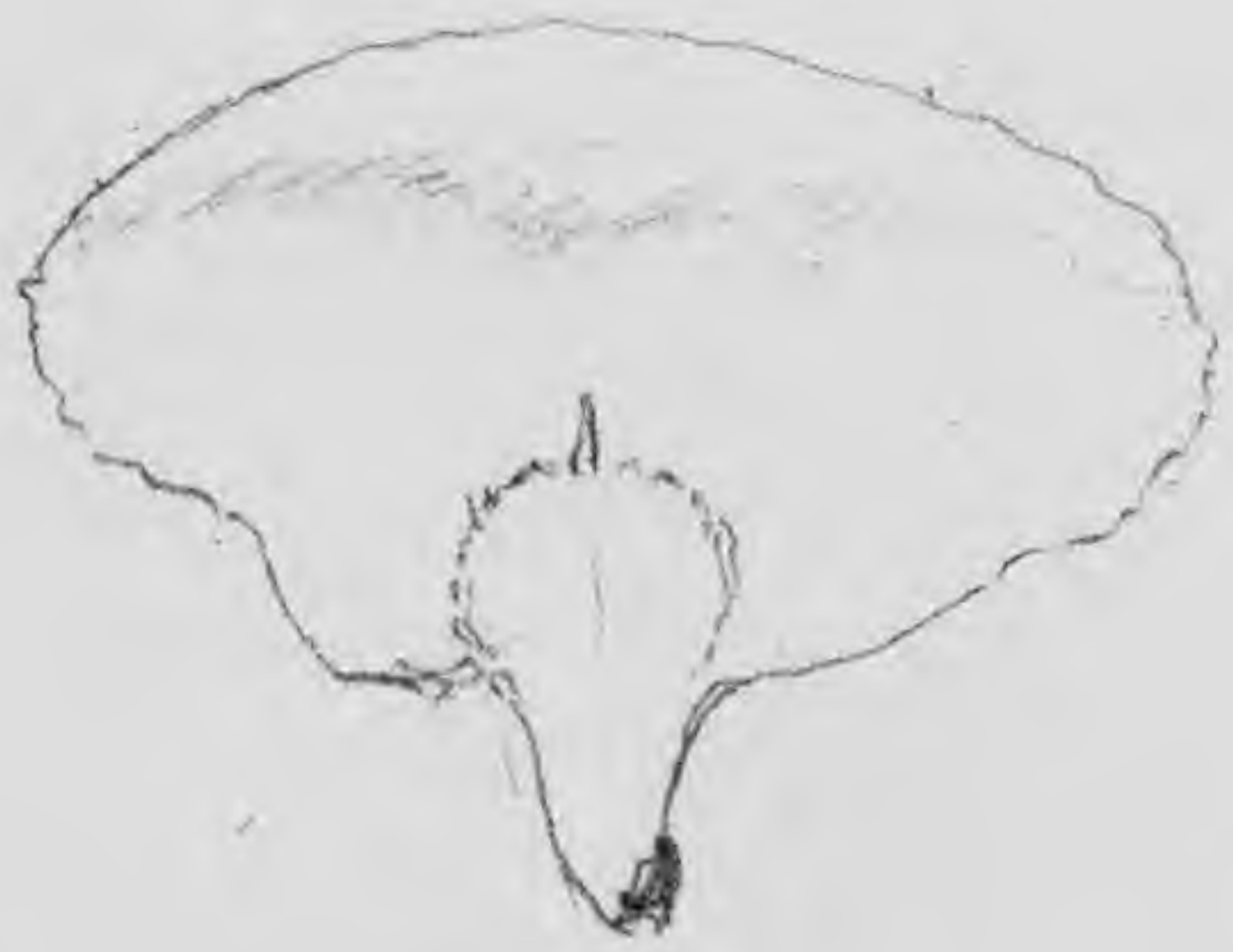
ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

Bractea brevissima Abies Sibirica Octob 5 1870

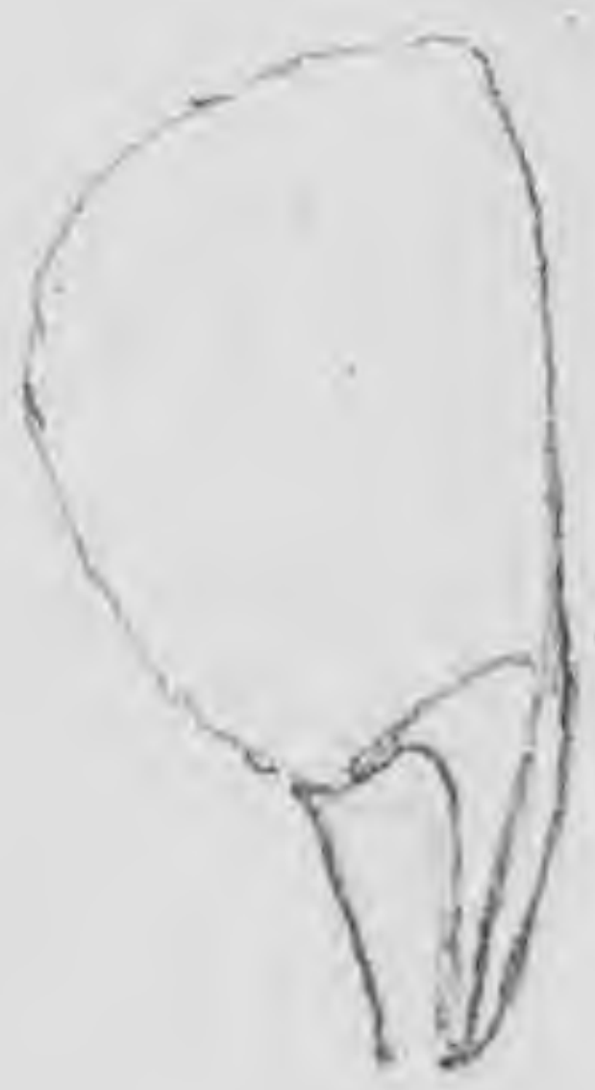
ex Reliquiis Lehmannianis in Hb. Webb, Florence
Oct 1868

"bracteis squama subdupl. brevioribus" Ledeb. fl. 3. 669



scales 23–25 mm : 13–14 mm

3½ : 2



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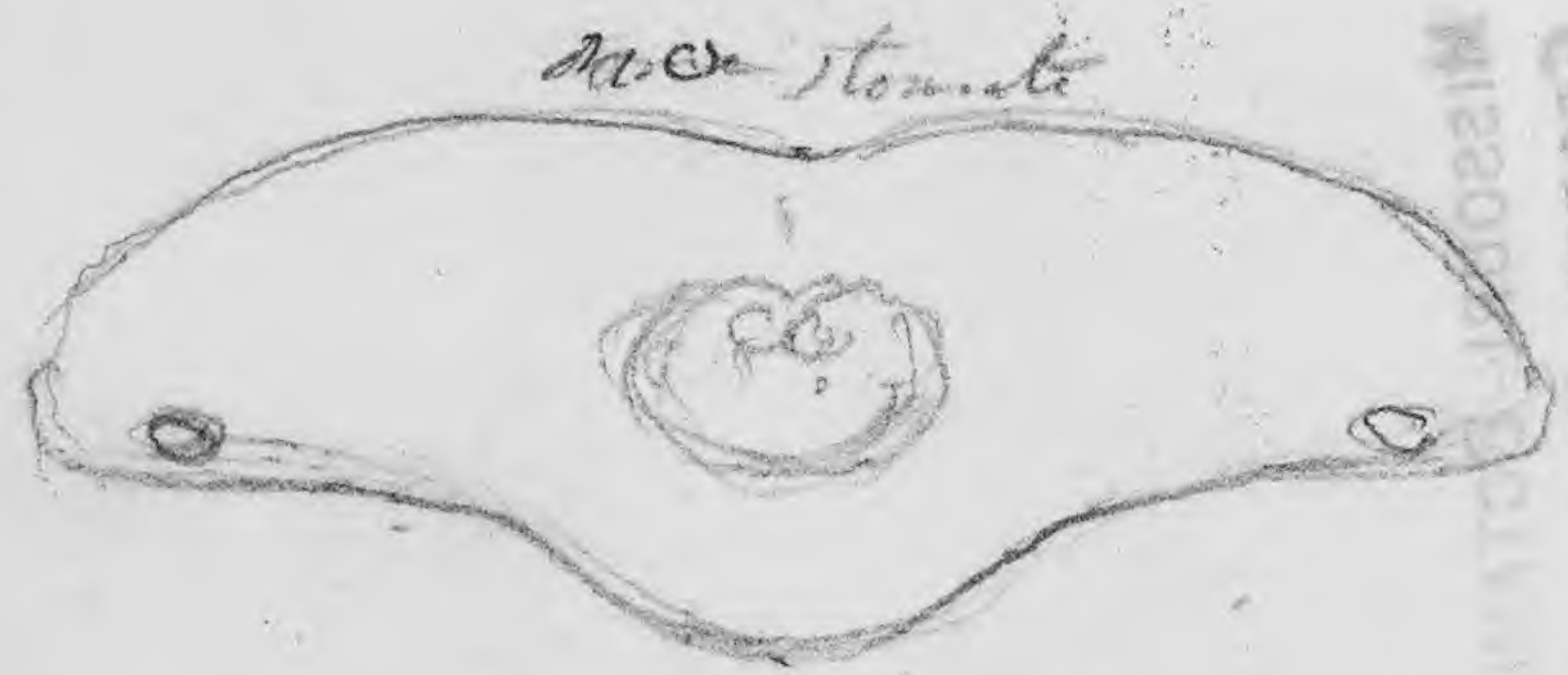
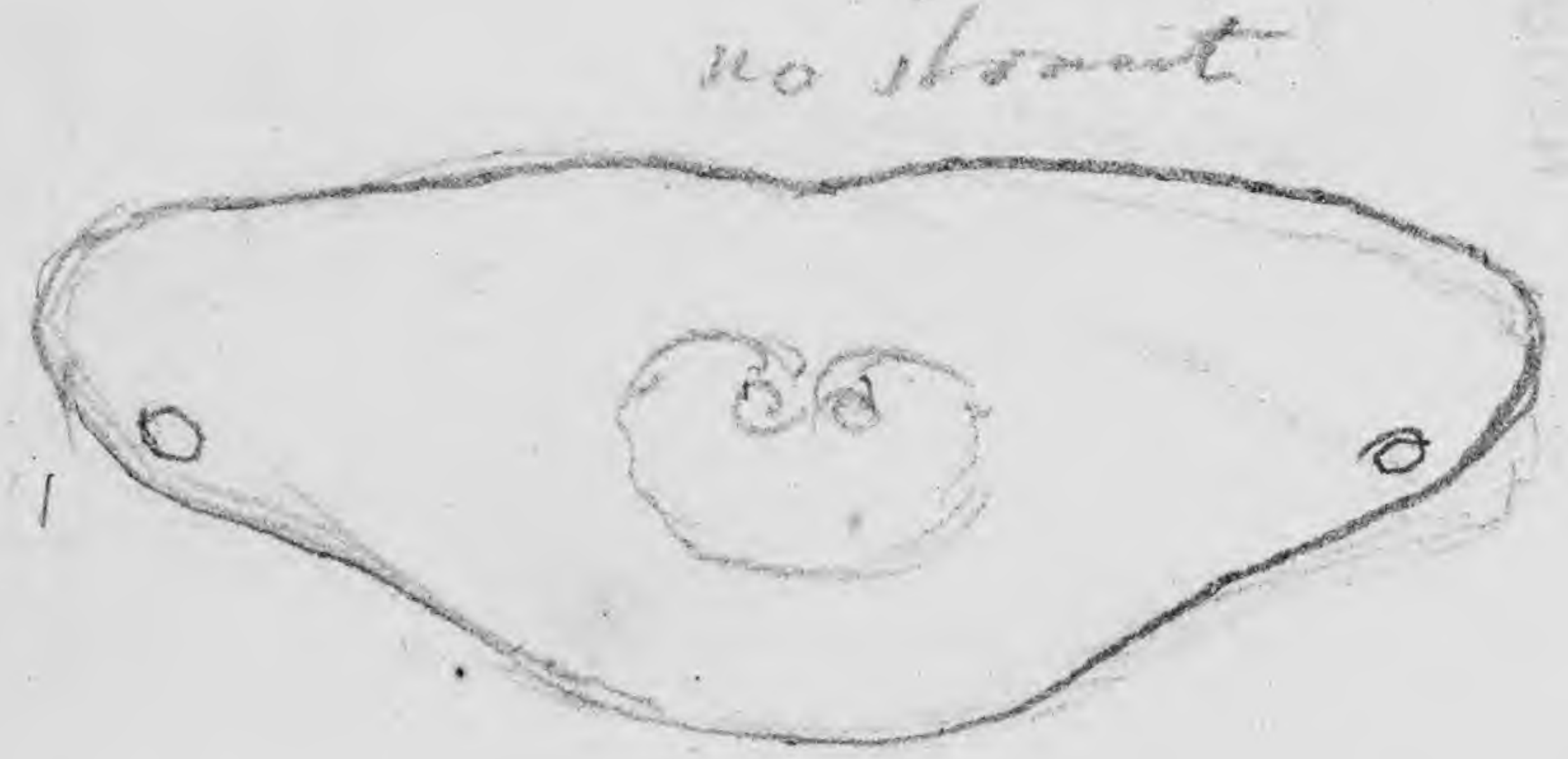
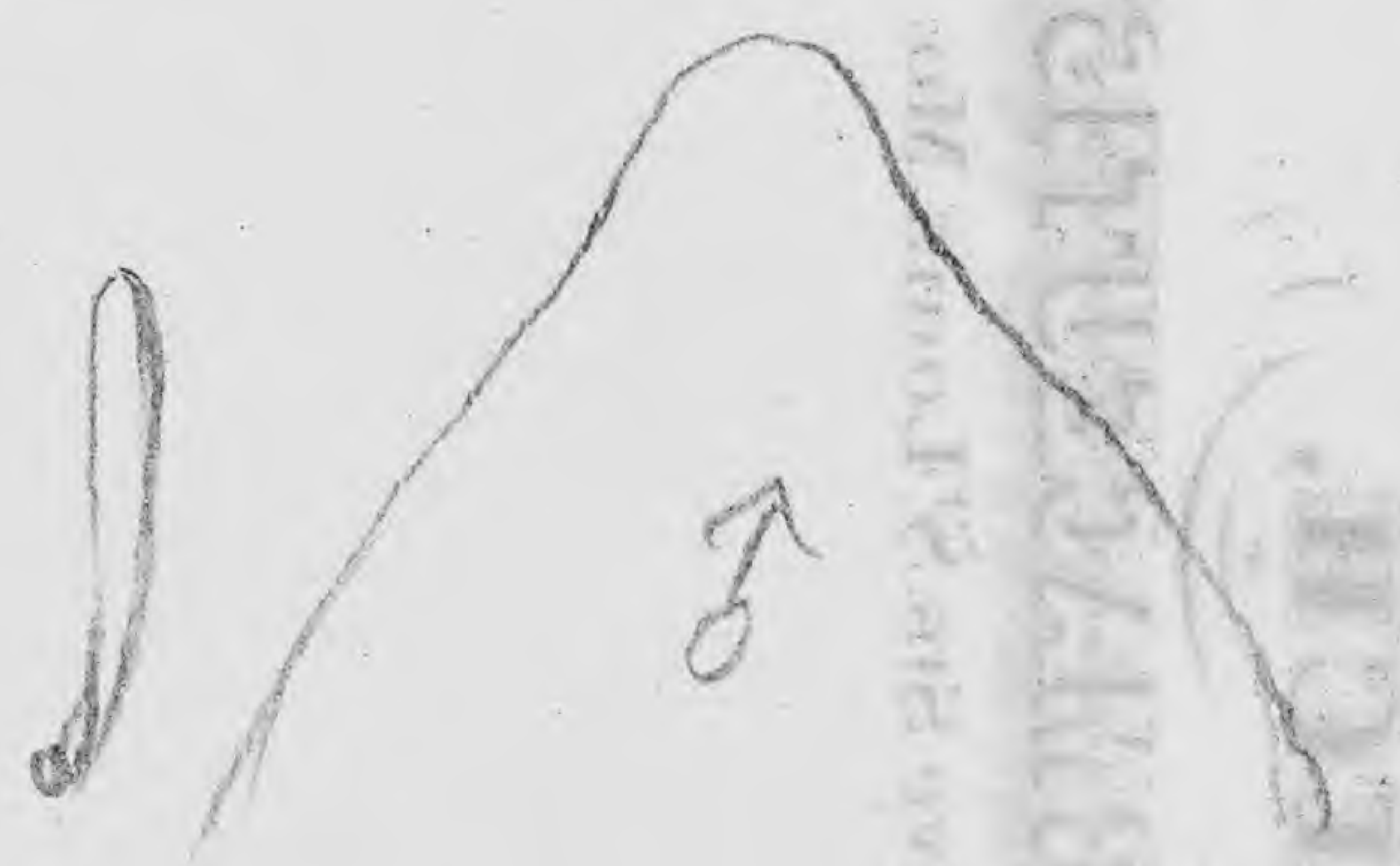
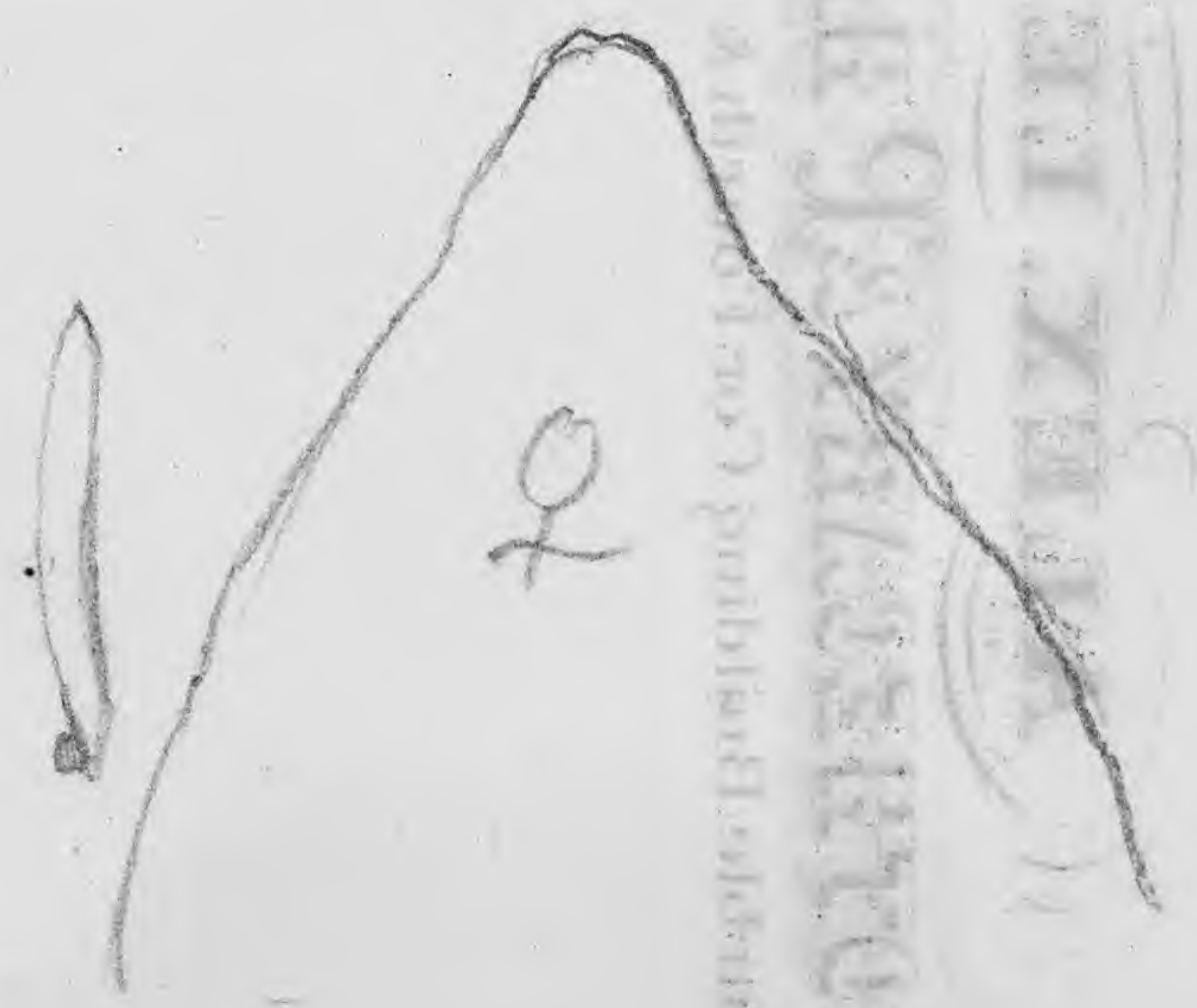
Abies panachaica Heldr Oct 9 75

Patras 1861 ex Hb Cosson









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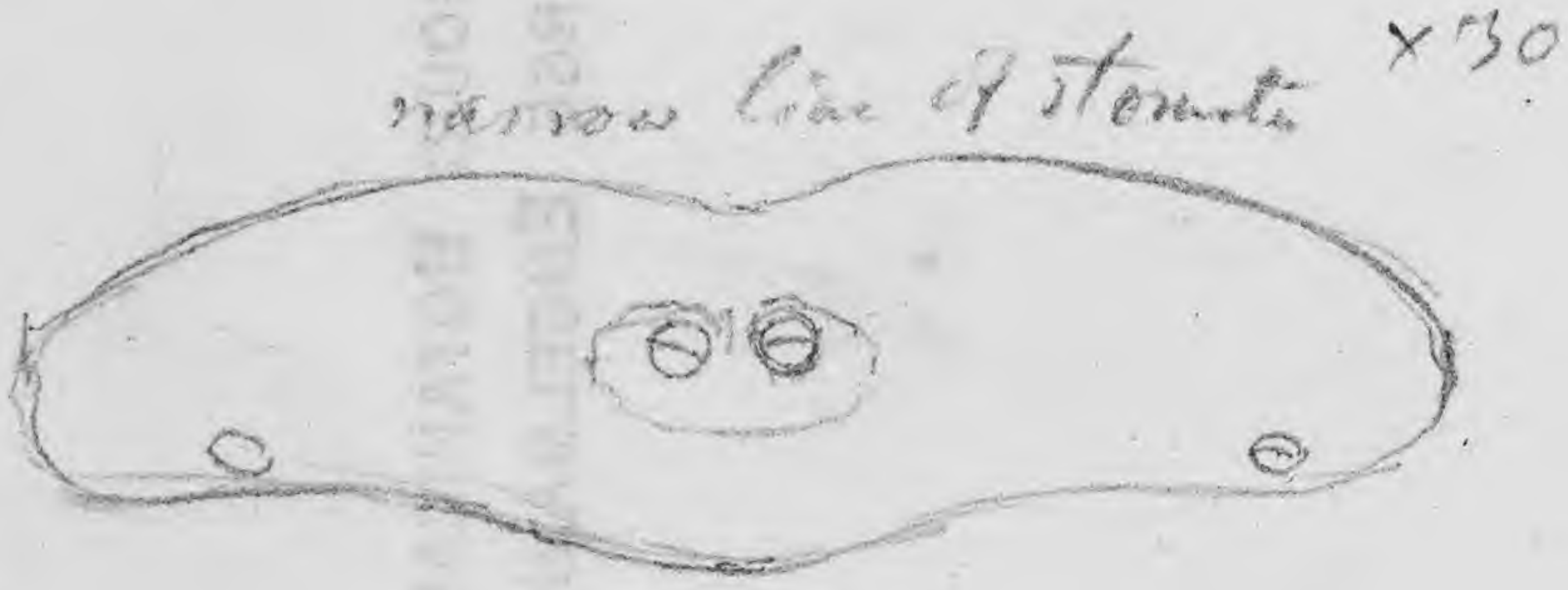
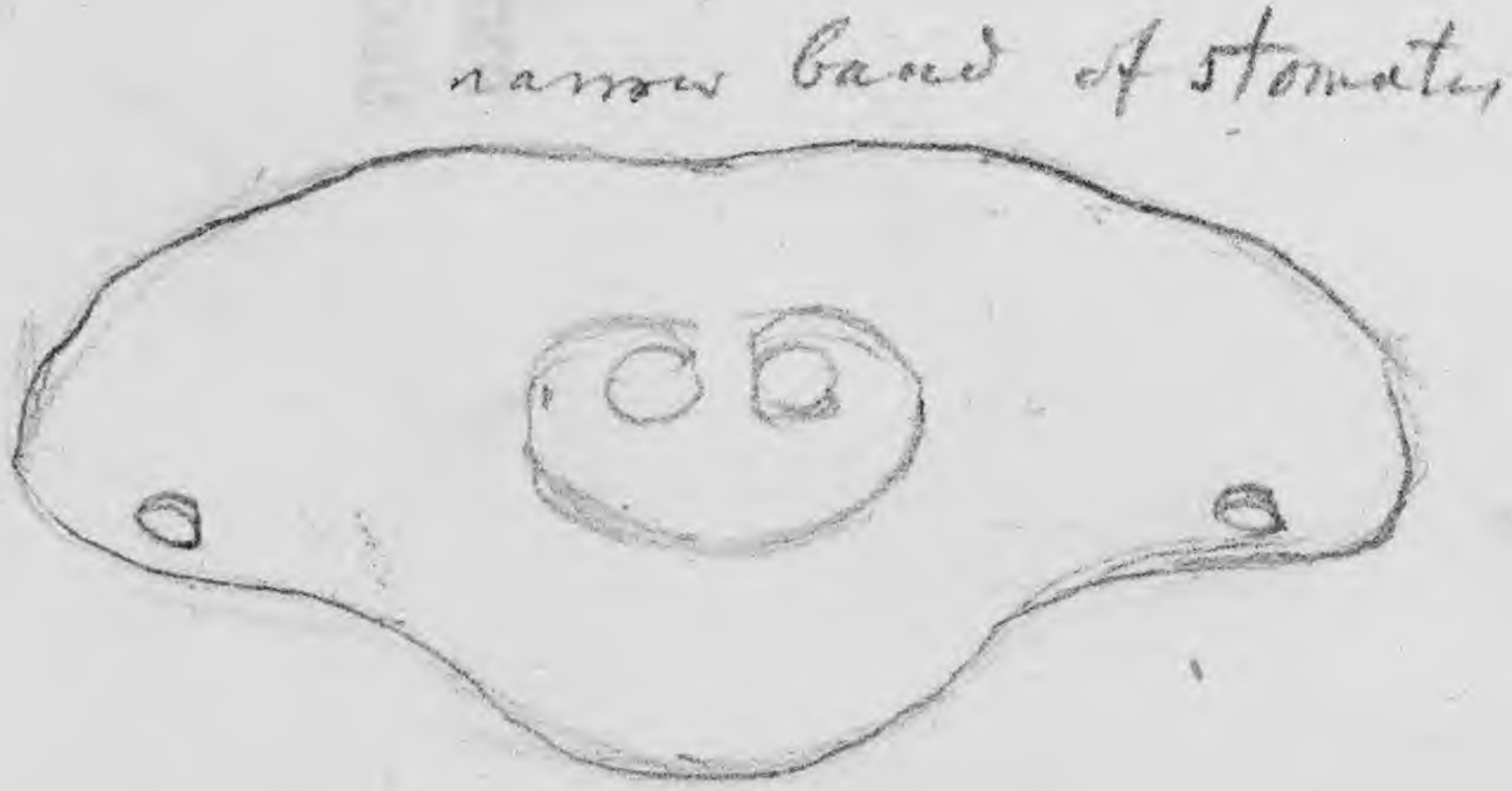
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St Louis, Mo.

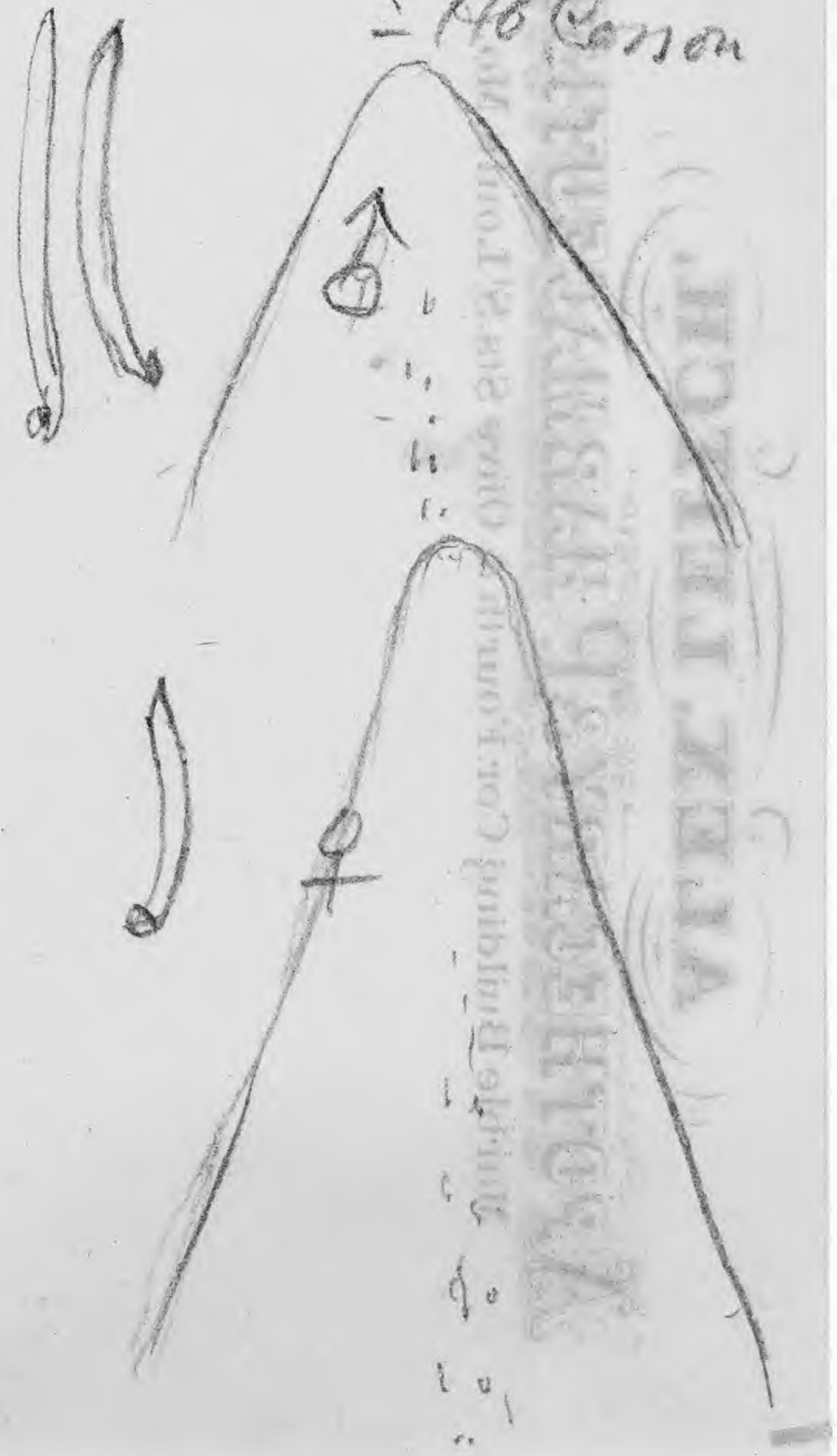
13051

A. Apollinis Oct 10 1875

Attica & high Mtns of Greece, Heldreich 1857
= H6 Carson







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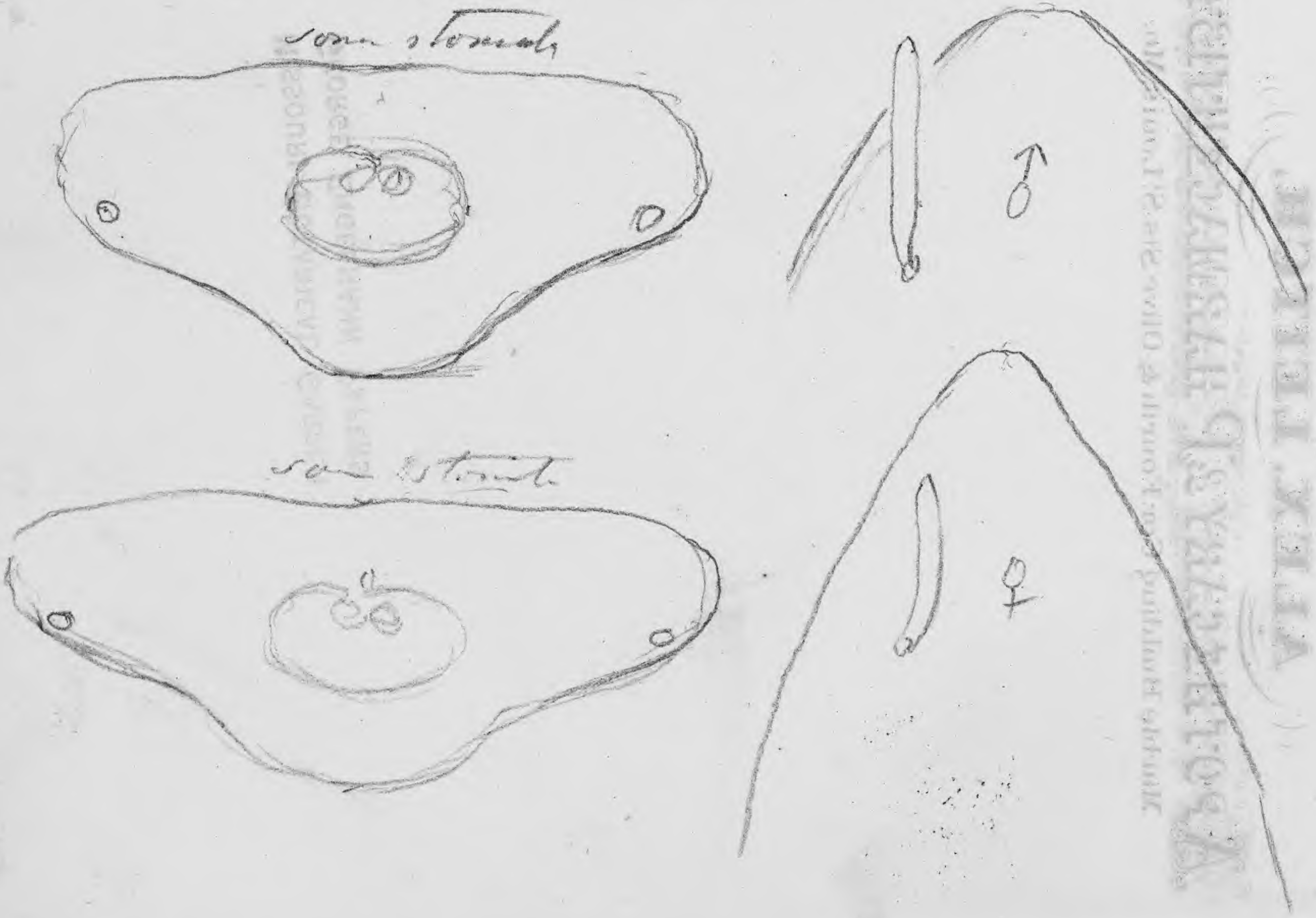
13052

A. Reginae Amaliae Oct 9 75

Arcadia austr. Heldreich 1861 Hb Cosson



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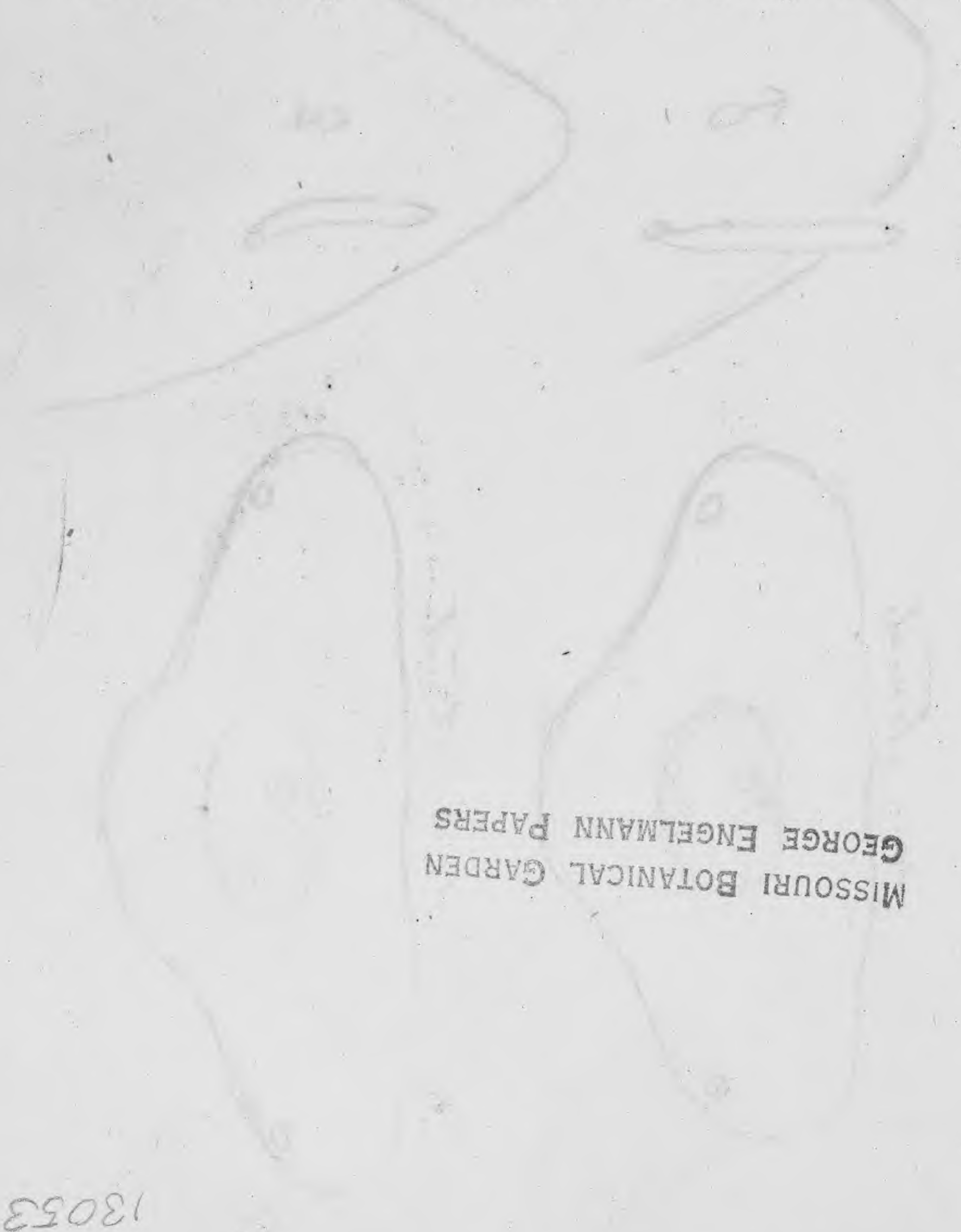

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On Devising a Plan for the Relief of Widows and Orphans of Medical Men, Dr. John H. Griscom, New York, Chairman.
On Veterinary Colleges, Dr. Thomas Antisell, D. C., Chairman.
On Specialties in Medicine, and the Propriety of Specialists Advertising. Dr. E. Howard, Maryland, Chairman.
On Library of American Medical Works, Dr. J. M. Toner, D. C., Ch'm.
On Vaccination, Dr. Henry A. Martin, Massachusetts, Chairman.
On the Decomposition of Urea in Uræmic Poisoning, Dr. H. R. Noel, Maryland, Chairman.
On the Best Method of Treatment for the Different Forms of Cleft Palate, Dr. J. R. Whitehead, New York, Chairman.
On Rank of Medical Men in the Navy, Dr. N. S. Davis, Ill., Chairman.
On Medical Ethics, Dr. D. Francis Condie, Pennsylvania, Chairman.
On American Medical Necrology, Dr. C. C. Cox, Maryland, Chairman.
On Medical Education, Dr. J. C. Reeve, Ohio, Chairman.
On Medical Literature, Dr. E. Warren, Maryland, Chairman.
On Prize Essays, Dr. S. M. Bemiss, Louisiana, Chairman.
On the Climatology and Epidemics of the several States.

(One Member for each State.)

Secretaries of all medical organizations are requested to forward lists of their Delegates as soon as elected, to the Permanent Secretary.

☞ Any respectable physician who may desire to attend, but can not do so as a delegate, may be made a member by invitation, upon the recommendation of the Committee of Arrangements.

WM. B. ATKINSON, M.D.,
Permanent Secretary,
S. W. Cor. Broad and Pine Streets, Philad.

A Graeca

Panachaicon
Regione Abiet
Apollinis

ROY, *Anémie des grandes villes et des gens du monde (cachexie urbaine)* Masson et fils, Paris, promises to be an interesting study on an important theme in hygiene and social science. Another subject of interest is discussed in a small memoir by EIGENBROD, on the cleaning of cities to prevent the increasing impurity of the soil in our habitations, as the most important problem of sanitary police, 92 pp. 8vo., Darmstadt.

A few weeks ago I had a case of poisoning with sulphate of morphia. The person was in a dangerous condition. I injected a grain of pure coffeine with the hypodermic syringe, and after I had injected three grains in ten minutes, the person recovered quickly.

Respectfully, H. A. LENNEKER.

GYNÆCOLOGICAL SOCIETY OF BOSTON.—A number of physicians at Boston, "desirous of advancing the study and treatment of the Diseases of Women," have recently founded a Gynæcological Society, of which WINSLOW LEWIS is President, HORATIO R. STORER Secretary, and GEORGE H. BIXBY (late of St. Louis) Treasurer. The code of ethics of the American Medical Association is recognized as binding upon its members, by a separate article of the constitution. A by-law limits the number of members to twenty-four.

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the Use of Cold Water in Febrile Diseases," 176 pp. 8vo., Leipsig, is a work well received by the critics.

Electro-therapy is still making additions to our literature. Fannin & Co., Dublin, announce: POWELL, "The Practice of Medical Electricity," etc., with rules for the treatment of nervous diseases, especially paralysis and neuralgia. Prof. HAMMOND is preparing a translation of MORITZ MEYER'S "Electricity in its Relations to Practical Medicine," from the third German edition, to be issued by the Appletons in a volume of over 400 pp. 8vo.

Hygiene.—A large treatise on this science has appeared in Paris: MOTARD, *Traité d'hygiène générale*, 1700 pp. 8vo., Baillière et fils. LE ROY, *Anémie des grandes villes et des gens du monde* (*cachexie urbaine*) Masson et fils, Paris, promises to be an interesting study on an important theme in hygiene and social science. Another subject of interest is discussed in a small memoir by EIGENBROD, on the cleaning of cities to prevent the increasing impurity of the soil in our habitations, as the most important problem of sanitary police, 92 pp. 8vo., Darmstadt.

Forensic Medicine.—A reviewer in the *Med. Presse* says of a recent work by v. FABRICE, on Abortion and Infanticide, 441 pp. 8vo., Erlangen,

nothing not known before, but does say *all that is known*

---

coffeine with the hypodermic syringe, and after I had injected three grains in ten minutes, the person recovered quickly.

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can Medical

Abietes gerontogeae

ter elongata exserta (reflexa)

AMERICAN MEDICAL ASSOCIATION.

The Twentieth Annual Session will be held in New Orleans, La., May 4. 1869, at 11 A. M.

The following Committees are expected to report:—

On Diseases of the Cornea, Dr. Joseph S. Hildreth, Illinois, Chairman.
On Cultivation of the Cinchona Tree, Dr. Lemuel J. Deal, Penn., Ch'm.
On Excision of Joints for Injuries, Dr. J. B. Reed, Georgia, Chairman.
On Alcohol and its Relations to Medicine, Dr. John Bell, Penn., Ch'm
On the Cryptogamic Origin of Disease with special reference to recent microscopic investigations on that subject, Dr. E. Curtis, U. S. A., Ch'm.
On Operations for Hare-lip, Dr. A. Hammer, Missouri, Chairman.
On Clinical Thermometry in Diphtheria, Dr. J. G. Richardson, N.Y., Ch'm.
On Prophylactics in Zymotic Diseases, Dr. Nelson L. North, N. Y., Ch'm.
On Inebriate Asylums, Dr. C. H. Nichols, D. C., Chairman.
On the Influence of the Pneumogastric Nerve on Spasmodic and Rhythmical Movements of the Lungs, Dr. Thomas Antisell, D. C., Chairman.
To Examine into the Present Plan of Organization and Management of the United States Marine Hospitals, Dr. D. W. Bliss, D. C., Chairman,
On the Utilization of Sewerage, Dr. Stephen Smith, N. Y., Chairman.
Introduction of Disease

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13055